

## CMA INTEROFFICE MEMO

November 17, 1995

To: CHEMSTAR Panel Managers

From: Mike Heimowitz, Distribution Division, x1360

Subject: North American Emergency Response Guidebook

For more than a decade, the United States Department of Transportation and Transport Canada have separately published and distributed Emergency Response Guidebooks to millions of people in the public response community and industry. These books cover hundreds of chemicals and chemical classes and provide basic information on what to do initially at the scene of an incident. Next year, in the spirit of NAFTA, the U.S., Canada and Mexico will publish a North American Emergency Response Guidebook which will supercede all previous editions and be used in all three countries. That's the good news. The bad news is that the deadline for publication is approaching and the government just released a semi-complete draft of the book. We must provide comments by the first week of December. Previous editions of these books have been full of errors. Adding to the complexity this year is the fact that the U.S. and Canada have rewritten virtually every Guide Page.

I am enclosing the Guide Pages for the chemicals which your panels cover. The Guide pages are numbered from 111 to 170. If there is no listing for your panel name, please look in the index for all chemicals your panel covers. Here is an index by panel:

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| PCB's                                          | 171                          |
| Propylene Glycol Ethers (no listing)           |                              |
| Propylene Oxide                                | 127                          |
| Rubber Additives (no listing)                  |                              |
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| Specialty Acrylates/Methacrylates (no listing) |                              |
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If you have any questions or comments, please call me at X 1360.

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| Aryl sulfonic acids, liquid, with not more than 5% free Sulfuric acid   | 153 | 2586 |
| Aryl sulfonic acids, solid, with more than 5% free Sulfuric acid        | 153 | 2583 |
| Aryl sulfonic acids, solid, with not more than 5% free Sulfuric acid    | 153 | 2585 |
| Aryl sulphonic acids, liquid, with more than 5% free Sulphuric acid     | 153 | 2584 |
| Aryl sulphonic acids, liquid, with not more than 5% free Sulphuric acid | 153 | 2586 |
| Aryl sulphonic acids, solid, with more than 5% free Sulphuric acid      | 153 | 2583 |
| Aryl sulphonic acids, solid, with not more than 5% free Sulphuric acid  | 153 | 2585 |
| Asbestos                                                                | 171 | 2212 |
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| 1-AziridinyI phosphine oxide (Tris)                                     | 152 | 2501 |
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| 2,2'-Azodi-(2,4-dimethylvaleronitrile)                                  | 150 | 2953 |
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| Barium chlorate, wet                                                 | 141 | 1445 |
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| Barium cyanide                                                       | 157 | 1565 |
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| Barium selenite                                                      | 151 | 2630 |
| Batteries, containing Sodium                                         | 138 | 3292 |
| Batteries, dry, containing Potassium hydroxide, solid                | 154 | 3028 |
| Batteries, wet, filled with acid                                     | 154 | 2794 |
| Batteries, wet, filled with alkali                                   | 154 | 2795 |
| Batteries, wet, non-spillable                                        | 154 | 2800 |
| Battery                                                              | 154 | 1813 |
| Battery                                                              | 154 | 2794 |
| Battery                                                              | 154 | 2795 |
| Battery fluid, acid                                                  | 157 | 2796 |
| Battery fluid, acid, with battery                                    | 157 | 2796 |
| Battery fluid, acid, with electronic equipment or actuating device   | 157 | 2796 |
| Battery fluid, alkali                                                | 154 | 2797 |
| Battery fluid, alkali, with battery                                  | 154 | 2797 |
| Battery fluid, alkali, with electronic equipment or actuating device | 154 | 2797 |
| Battery-powered equipment (wet battery)                              | 154 | 3171 |
| Battery-powered vehicle (wet battery)                                | 154 | 3171 |
| Benzaldehyde                                                         | 129 | 1989 |
| Benzaldehyde                                                         | 129 | 1990 |
| Benzene                                                              | 130 | 1114 |
| Benzene-1,3-disulfohydrazide                                         | 149 | 2971 |
| Benzene-1,3-disulphohydrazide                                        | 149 | 2971 |
| Benzene phosphorus dichloride                                        | 137 | 2798 |
| Benzene phosphorus thiodichloride                                    | 137 | 2799 |
| Benzene sulfohydrazide                                               | 149 | 2970 |
| Benzenesulfonyl chloride                                             | 156 | 2225 |
| Benzene sulphohydrazide                                              | 149 | 2970 |
| Benzenesulphonyl chloride                                            | 156 | 2225 |
| Benzidine                                                            | 153 | 1885 |
| Benzoic acid                                                         | 153 | 9094 |
| Benzoic derivative pesticide, liquid, flammable, poisonous           | 131 | 2770 |
| Benzoic derivative pesticide, liquid, flammable, toxic               | 131 | 2770 |
| Benzoic derivative pesticide, liquid, poisonous                      | 151 | 3004 |
| Benzoic derivative pesticide, liquid, poisonous                      | 131 | 3003 |
| Benzoic derivative pesticide, liquid, toxic                          | 151 | 3004 |
| Benzoic derivative pesticide, liquid, toxic, flammable               | 131 | 3003 |
| Benzoic derivative pesticide, solid, poisonous                       | 151 | 2769 |
| Benzoic derivative pesticide, solid, toxic                           | 151 | 2769 |
| Benzonitrile                                                         | 152 | 2224 |
| Benzoquinone                                                         | 153 | 2587 |
| Benzotrichloride                                                     | 156 | 2226 |
| Benzotrifluoride                                                     | 131 | 2338 |
| Benzoyl chloride                                                     | 137 | 1736 |

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| Benzoyl peroxide                                                              | 146 | 2085 |
| Benzoyl peroxide                                                              | 146 | 2087 |
| Benzoyl peroxide                                                              | 146 | 2088 |
| Benzoyl peroxide                                                              | 145 | 2089 |
| Benzoyl peroxide                                                              | 146 | 2090 |
| Benzyl bromide                                                                | 156 | 1737 |
| Benzyl chloride                                                               | 156 | 1738 |
| Benzyl chloroformate                                                          | 137 | 1739 |
| Benzyl dimethylamine                                                          | 132 | 2619 |
| 4-[Benzyl(ethyl)amino]-3-ethoxybenzenediazonium zinc chloride                 | 149 | 3037 |
| Benzylidene chloride                                                          | 156 | 1886 |
| Benzyl iodide                                                                 | 156 | 2653 |
| 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium zinc chloride                | 150 | 3038 |
| Beryllium, powder                                                             | 134 | 1567 |
| Beryllium chloride                                                            | 154 | 1566 |
| Beryllium compound, n.o.s.                                                    | 154 | 1566 |
| Beryllium fluoride                                                            | 154 | 1566 |
| Beryllium nitrate                                                             | 141 | 2464 |
| Bhusa, wet, damp or contaminated with oil                                     | 133 | 1327 |
| Bicyclo[2.2.1]hepta-2,5-diene                                                 | 127 | 2251 |
| Bicyclo[2.2.1]hepta-2,5-diene, inhibited                                      | 127 | 2251 |
| Bifluorides, n.o.s.                                                           | 154 | 1740 |
| (Bio)Medical waste, n.o.s.                                                    | 158 | 3291 |
| Bipyridilium pesticide, liquid, flammable, poisonous                          | 131 | 2782 |
| Bipyridilium pesticide, liquid, flammable, toxic                              | 131 | 2782 |
| Bipyridilium pesticide, liquid, poisonous                                     | 151 | 3016 |
| Bipyridilium pesticide, liquid, poisonous, flammable                          | 131 | 3015 |
| Bipyridilium pesticide, liquid, toxic                                         | 151 | 3016 |
| Bipyridilium pesticide, liquid, toxic, flammable                              | 131 | 3015 |
| Bipyridilium pesticide, solid, poisonous                                      | 151 | 2781 |
| Bipyridilium pesticide, solid, toxic                                          | 151 | 2781 |
| Bisulfates, aqueous solution                                                  | 154 | 2837 |
| Bisulfites, aqueous solution, n.o.s.                                          | 154 | 2693 |
| Bisulfites, inorganic, aqueous solutions, n.o.s.                              | 154 | 2693 |
| Bisulphates, aqueous solution                                                 | 154 | 2837 |
| Bisulphites, aqueous solution, n.o.s.                                         | 154 | 2693 |
| Bisulphites, inorganic, aqueous solutions, n.o.s.                             | 154 | 2693 |
| Blasting agent, n.o.s.                                                        | 112 | —    |
| Bleaching powder                                                              | 140 | 2208 |
| Blue asbestos                                                                 | 171 | 2212 |
| Bombs, smoke, non-explosive, with corrosive liquid, without initiating device | 153 | 2028 |
| Borate and Chlorate mixtures                                                  | 140 | 1458 |
| Borneol                                                                       | 133 | 1312 |
| Boron tribromide                                                              | 157 | 2692 |
| Boron trichloride                                                             | 125 | 1741 |
| Boron trifluoride                                                             | 125 | 1008 |
| Boron trifluoride, compressed                                                 | 125 | 1008 |
| Boron trifluoride, dihydrate                                                  | 157 | 2851 |
| Boron trifluoride acetic acid complex                                         | 155 | 1742 |
| Boron trifluoride diethyl etherate                                            | 132 | 2604 |
| Boron trifluoride dimethyl etherate                                           | 139 | 2965 |
| Boron trifluoride propionic acid complex                                      | 156 | 1743 |
| Brake fluid, hydraulic                                                        | 130 | 1118 |
| Bromates, inorganic, aqueous solution, n.o.s.                                 | 140 | 3213 |
| Bromates, inorganic, n.o.s.                                                   | 141 | 1450 |

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| Bromine                                   | 154  | 1744 |
| Bromine, solution                         | 154  | 1744 |
| Bromine chloride                          | 124  | 2901 |
| Bromine pentafluoride                     | 144  | 1745 |
| Bromine trifluoride                       | 144  | 1746 |
| Bromoacetic acid                          | 156  | 1938 |
| Bromoacetic acid, solid                   | 156  | 1938 |
| Bromoacetic acid, solution                | 156  | 1938 |
| Bromoacetone                              | 131  | 1569 |
| Bromoacetyl bromide                       | 156  | 2513 |
| Bromobenzene                              | 129  | 2514 |
| Bromobenzyl cyanides                      | 159  | 1694 |
| 1-Bromobutane                             | 129  | 1126 |
| 2-Bromobutane                             | 130  | 2339 |
| Bromochlorodifluoromethane                | 126  | 1974 |
| Bromochloromethane                        | 160  | 1887 |
| 1-Bromo-3-chloropropane                   | 159  | 2688 |
| 2-Bromoethyl ethyl ether                  | 130  | 2340 |
| Bromoform                                 | 159  | 2515 |
| 1-Bromo-3-methylbutane                    | 130  | 2341 |
| Bromomethylpropanes                       | 130  | 2342 |
| 2-Bromo-2-nitropropane-1,3-diol           | 153  | 3241 |
| 2-Bromopentane                            | 130  | 2343 |
| 2-Bromopropane                            | 132  | 2344 |
| Bromopropanes                             | 132  | 2344 |
| 3-Bromopropyne                            | 132  | 2345 |
| Bromotrifluoroethylene                    | 116  | 2419 |
| Bromotrifluoromethane                     | 126  | 1009 |
| Brown asbestos                            | 171  | 2212 |
| Brucine                                   | 152  | 1570 |
| Burnt cotton, not picked                  | 133  | 1325 |
| Butadienes, inhibited                     | 116P | 1010 |
| Butane                                    | 115  | 1011 |
| Butane                                    | 115  | 1075 |
| Butanedione                               | 127  | 2346 |
| Butane mixture                            | 115  | 1011 |
| Butane mixture                            | 115  | 1075 |
| Butanols                                  | 129  | 1120 |
| Butoxyl                                   | 127  | 2708 |
| Butyl acetates                            | 129  | 1123 |
| Butyl acid phosphate                      | 153  | 1718 |
| Butyl acrylate                            | 129P | 2348 |
| Butyl acrylates, inhibited                | 129P | 2348 |
| Butyl alcohol                             | 129  | 1120 |
| n-Butylamine                              | 132  | 1125 |
| N-Butylaniline                            | 153  | 2738 |
| Butylbenzenes                             | 128  | 2709 |
| n-Butyl bromide                           | 129  | 1126 |
| Butyl chloride                            | 130  | 1127 |
| n-Butyl chloroformate                     | 155  | 2743 |
| sec-Butyl chloroformate                   | 155  | 2742 |
| tert-Butyl cumene peroxide                | 145  | 2091 |
| tert-Butyl cumyl peroxide                 | 145  | 2091 |
| tert-Butylcyclohexyl chloroformate        | 156  | 2747 |
| n-Butyl-4,4-di-(tert-butylperoxy)valerate | 146  | 2140 |
| n-Butyl-4,4-di-(tert-butylperoxy)valerate | 145  | 2141 |

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| Butylene                                                                             | 115  | 1012 |
| Butylene                                                                             | 115  | 1075 |
| 1,2-Butylene oxide, stabilized                                                       | 127P | 3022 |
| Butyl ethers                                                                         | 127  | 1149 |
| n-Butyl formate                                                                      | 129  | 1128 |
| tert-Butyl hydroperoxide                                                             | 147  | 2093 |
| tert-Butyl hydroperoxide                                                             | 147  | 2094 |
| tert-Butyl hydroperoxide, not more than 80% in Di-tert-Butyl peroxide and/or solvent | 147  | 2092 |
| tert-Butyl hypochlorite                                                              | 135  | 3255 |
| N,n-Butyl imidazole                                                                  | 152  | 2690 |
| n-Butyl isocyanate                                                                   | 155  | 2485 |
| tert-Butyl isocyanate                                                                | 155  | 2484 |
| tert-Butyl isopropyl benzene hydroperoxide                                           | 145  | 2091 |
| Butyl mercaptan                                                                      | 130  | 2347 |
| n-Butyl methacrylate                                                                 | 129P | 2227 |
| n-Butyl methacrylate, inhibited                                                      | 129P | 2227 |
| Butyl methyl ether                                                                   | 127  | 2350 |
| tert-Butyl monoperoxymaleate                                                         | 146  | 2099 |
| Butyl nitrites                                                                       | 129  | 2351 |
| tert-Butyl peroxyacetate                                                             | 146  | 2095 |
| tert-Butyl peroxyacetate                                                             | 146  | 2096 |
| tert-Butyl peroxybenzoate                                                            | 146  | 2097 |
| tert-Butyl peroxybenzoate                                                            | 145  | 2098 |
| tert-Butyl peroxybenzoate                                                            | 145  | 2890 |
| tert-Butyl peroxyacrylate                                                            | 145  | 2183 |
| Butyl peroxydicarbonate                                                              | 148  | 2169 |
| Butyl peroxydicarbonate                                                              | 148  | 2170 |
| tert-Butyl peroxydiethylacetate                                                      | 148  | 2144 |
| tert-Butyl peroxydiethylacetate, with tert-Butyl peroxybenzoate                      | 145  | 2551 |
| tert-Butyl peroxy-2-ethylhexanoate                                                   | 148  | 2143 |
| tert-Butyl peroxy-2-ethylhexanoate, not more than 50%, with phlegmatizer             | 148  | 2888 |
| tert-Butyl peroxy-2-ethylhexanoate, with 2,2-Di-(tert-butylperoxy)butane             | 148  | 2886 |
| tert-Butyl peroxy-2-ethylhexanoate, with 2,2-Di-(tert-butylperoxy)butane             | 145  | 2887 |
| tert-Butyl peroxyisobutyrate                                                         | 148  | 2142 |
| tert-Butyl peroxyisobutyrate                                                         | 148  | 2562 |
| tert-Butyl peroxyisononanoate                                                        | 145  | 2104 |
| tert-Butyl peroxyisopropyl carbonate                                                 | 146  | 2103 |
| tert-Butyl peroxyneodecanoate                                                        | 148  | 2177 |
| tert-Butyl peroxyneodecanoate                                                        | 148  | 2594 |
| tert-Butyl peroxy-3-phenylphthalide                                                  | 145  | 2596 |
| tert-Butyl peroxy-pivalate                                                           | 148  | 2110 |
| tert-Butyl peroxy-3,5,5-trimethylhexanoate                                           | 145  | 2104 |
| Butylphenols, liquid                                                                 | 153  | 2228 |
| Butylphenols, solid                                                                  | 153  | 2229 |
| n-Butyl phthalate                                                                    | 171  | 9095 |
| Butyl propionates                                                                    | 130  | 1914 |
| Butyltoluenes                                                                        | 131  | 2667 |
| Butyltrichlorosilane                                                                 | 155  | 1747 |
| 5-tert-Butyl-2,4,6-trinitro-m-xylene                                                 | 149  | 2956 |
| Butyl vinyl ether, inhibited                                                         | 127P | 2352 |
| 1,4-Butynediol                                                                       | 153  | 2716 |
| Butyraldehyde                                                                        | 129  | 1129 |
| Butyraldoxime                                                                        | 129  | 2840 |
| Butyric acid                                                                         | 153  | 2820 |

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| Butyric anhydride                                                                                | 156 | 2739 |
| Butyronitrile                                                                                    | 131 | 2411 |
| Butyryl chloride                                                                                 | 132 | 2353 |
| Cacodylic acid                                                                                   | 151 | 1572 |
| Cadmium compound                                                                                 | 154 | 2570 |
| Caesium                                                                                          | 138 | 1407 |
| Caesium hydroxide                                                                                | 157 | 2682 |
| Caesium hydroxide, solution                                                                      | 154 | 2681 |
| Caesium nitrate                                                                                  | 140 | 1451 |
| Calcium                                                                                          | 138 | 1401 |
| Calcium, metal and alloys, pyrophoric                                                            | 135 | 1855 |
| Calcium, pyrophoric                                                                              | 135 | 1855 |
| Calcium alloys, pyrophoric                                                                       | 135 | 1855 |
| Calcium arsenate                                                                                 | 151 | 1573 |
| Calcium arsenate and Calcium arsenite mixture, solid                                             | 151 | 1574 |
| Calcium arsenite, solid                                                                          | 151 | 1574 |
| Calcium arsenite and Calcium arsenate mixture, solid                                             | 151 | 1574 |
| Calcium carbide                                                                                  | 138 | 1402 |
| Calcium chlorate                                                                                 | 140 | 1452 |
| Calcium chlorate, aqueous solution                                                               | 140 | 2429 |
| Calcium chlorate, solution                                                                       | 140 | 2429 |
| Calcium chlorite                                                                                 | 140 | 1453 |
| Calcium chromate                                                                                 | 171 | 9096 |
| Calcium cyanamide, with more than 0.1% Calcium carbide                                           | 138 | 1403 |
| Calcium cyanide                                                                                  | 157 | 1575 |
| Calcium dithionite                                                                               | 135 | 1923 |
| Calcium dodecylbenzenesulfonate                                                                  | 171 | 9097 |
| Calcium dodecylbenzenesulphonate                                                                 | 171 | 9097 |
| Calcium hydride                                                                                  | 138 | 1404 |
| Calcium hydrogen sulfite, solution                                                               | 154 | 2693 |
| Calcium hydrogen sulphite, solution                                                              | 154 | 2693 |
| Calcium hydrosulfite                                                                             | 135 | 1923 |
| Calcium hydrosulphite                                                                            | 135 | 1923 |
| Calcium hypochlorite, dry                                                                        | 140 | 1748 |
| Calcium hypochlorite, hydrated mixture, with not less than 5.5% but not more than 10% water      | 140 | 2880 |
| Calcium hypochlorite, hydrated with not less than 5.5% but not more than 10% water               | 140 | 2880 |
| Calcium hypochlorite mixture, dry, with more than 10% but not more than 39% available Chlorine   | 140 | 2208 |
| Calcium hypochlorite mixture, dry, with more than 39% available Chlorine (8.8% available Oxygen) | 140 | 1748 |
| Calcium manganese silicon                                                                        | 138 | 2844 |
| Calcium metal, crystalline                                                                       | 138 | 1401 |
| Calcium nitrate                                                                                  | 140 | 1454 |
| Calcium oxide                                                                                    | 157 | 1910 |
| Calcium perchlorate                                                                              | 140 | 1455 |
| Calcium permanganate                                                                             | 140 | 1456 |
| Calcium peroxide                                                                                 | 140 | 1457 |
| Calcium phosphide                                                                                | 139 | 1360 |
| Calcium resinate                                                                                 | 133 | 1313 |
| Calcium resinate, fused                                                                          | 133 | 1314 |
| Calcium selenate                                                                                 | 151 | 2630 |
| Calcium silicide                                                                                 | 138 | 1405 |
| Calcium silicon                                                                                  | 138 | 1406 |
| Camphene                                                                                         | 133 | 9011 |

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| Camphor                                                                                           | 133 | 2717 |
| Camphor, synthetic                                                                                | 133 | 2717 |
| Camphor oil                                                                                       | 128 | 1130 |
| Caproic acid                                                                                      | 153 | 2829 |
| Caprylyl peroxide                                                                                 | 148 | 2129 |
| Caprylyl peroxide, solution                                                                       | 148 | 2129 |
| Carbamate pesticide, liquid, flammable, poisonous                                                 | 131 | 2758 |
| Carbamate pesticide, liquid, flammable, toxic                                                     | 131 | 2758 |
| Carbamate pesticide, liquid, poisonous                                                            | 151 | 2992 |
| Carbamate pesticide, liquid, poisonous, flammable                                                 | 131 | 2991 |
| Carbamate pesticide, liquid, toxic                                                                | 151 | 2992 |
| Carbamate pesticide, liquid, toxic, flammable                                                     | 131 | 2991 |
| Carbamate pesticide, solid, poisonous                                                             | 151 | 2757 |
| Carbamate pesticide, solid, toxic                                                                 | 151 | 2757 |
| Carbaryl                                                                                          | 151 | 2757 |
| Carbofuran                                                                                        | 151 | 2757 |
| Carbon, activated                                                                                 | 133 | 1362 |
| Carbon, animal or vegetable origin                                                                | 133 | 1361 |
| Carbon bisulfide                                                                                  | 131 | 1131 |
| Carbon bisulphide                                                                                 | 131 | 1131 |
| Carbon dioxide                                                                                    | 120 | 1013 |
| Carbon dioxide, compressed                                                                        | 120 | 1013 |
| Carbon dioxide, refrigerated liquid                                                               | 120 | 2187 |
| Carbon dioxide, solid                                                                             | 120 | 1845 |
| Carbon dioxide and Ethylene oxide mixture, with more than 9% but not more than 87% Ethylene oxide | 115 | 1041 |
| Carbon dioxide and Ethylene oxide mixture, with more than 87% Ethylene oxide                      | 119 | 3300 |
| Carbon dioxide and Ethylene oxide mixtures, with more than 6% Ethylene oxide                      | 115 | 1041 |
| Carbon dioxide and Ethylene oxide mixtures, with not more than 6% Ethylene oxide                  | 126 | 1952 |
| Carbon dioxide and Ethylene oxide mixtures, with not more than 9% Ethylene oxide                  | 126 | 1952 |
| Carbon dioxide and Nitrous oxide mixture                                                          | 126 | 1015 |
| Carbon dioxide and Oxygen mixture                                                                 | 122 | 1014 |
| Carbon dioxide and Oxygen mixture, compressed                                                     | 122 | 1014 |
| Carbon disulfide                                                                                  | 131 | 1131 |
| Carbon disulphide                                                                                 | 131 | 1131 |
| Carbon monoxide                                                                                   | 119 | 1016 |
| Carbon monoxide, compressed                                                                       | 119 | 1016 |
| Carbon monoxide and Hydrogen mixture                                                              | 119 | 2600 |
| Carbon monoxide and Hydrogen mixture, compressed                                                  | 119 | 2600 |
| Carbon monoxide, refrigerated liquid (cryogenic liquid)                                           | 168 | 9202 |
| Carbon tetrabromide                                                                               | 151 | 2516 |
| Carbon tetrachloride                                                                              | 151 | 1846 |
| Carbonyl fluoride                                                                                 | 125 | 2417 |
| Carbonyl fluoride, compressed                                                                     | 125 | 2417 |
| Carbonyl sulfide                                                                                  | 119 | 2204 |
| Carbonyl sulphide                                                                                 | 119 | 2204 |
| Castor beans, meal, pomace or flake                                                               | 171 | 2969 |
| Caustic alkali liquid, n.o.s.                                                                     | 154 | 1719 |
| Caustic potash, dry, solid                                                                        | 154 | 1813 |
| Caustic potash, liquid                                                                            | 154 | 1814 |
| Caustic potash, solution                                                                          | 154 | 1814 |
| Caustic soda, bead                                                                                | 154 | 1823 |

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| Caustic soda, flake                                                  | 154 | 1823 |
| Caustic soda, granular                                               | 154 | 1823 |
| Caustic soda, solid                                                  | 154 | 1823 |
| Caustic soda, solution                                               | 154 | 1824 |
| Cells, containing Sodium                                             | 138 | 3292 |
| Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap | 133 | 2000 |
| Celluloid, scrap                                                     | 135 | 2002 |
| Cement (flammable)                                                   | 127 | 1133 |
| Cement, container, linoleum, tile or wallboard, liquid               | 127 | 1133 |
| Cement, leather                                                      | 127 | 1133 |
| Cement, liquid, n.o.s.                                               | 127 | 1133 |
| Cement, pyroxylin                                                    | 127 | 1133 |
| Cement, roofing, liquid                                              | 127 | 1133 |
| Cement, rubber                                                       | 127 | 1133 |
| Cerium, slabs, ingots or rods                                        | 170 | 1333 |
| Cerium, turnings or gritty powder                                    | 138 | 3078 |
| Cesium                                                               | 138 | 1407 |
| Cesium hydroxide                                                     | 157 | 2682 |
| Cesium hydroxide, solution                                           | 154 | 2681 |
| Cesium nitrate                                                       | 140 | 1451 |
| Charcoal                                                             | 133 | 1361 |
| Charcoal, briquettes                                                 | 133 | 1361 |
| Charcoal, shell                                                      | 133 | 1361 |
| Charcoal, wood, ground, crushed, granulated or pulverized            | 133 | 1361 |
| Charcoal screenings, made from "Pinon" wood                          | 133 | 1361 |
| Charcoal screenings, other than "Pinon" wood screenings              | 133 | 1361 |
| Chemical kit                                                         | 153 | 1760 |
| Chemical kit                                                         | 171 | 3316 |
| Chemical kits (containing corrosive substances)                      | 154 | —    |
| Chemical kits (containing flammable liquids)                         | 128 | —    |
| Chemical kits (containing flammable solids)                          | 133 | —    |
| Chemical kits (containing oxidizing substances)                      | 140 | —    |
| Chemical kits (containing poisonous liquids)                         | 153 | —    |
| Chemical kits (containing poisonous solids)                          | 154 | —    |
| Chemical kits (containing toxic liquids)                             | 153 | —    |
| Chemical kits (containing toxic solids)                              | 154 | —    |
| Chemical sample, poisonous liquid                                    | 151 | 3315 |
| Chemical sample, poisonous solid                                     | 151 | 3315 |
| Chemical sample, toxic liquid                                        | 151 | 3315 |
| Chemical sample, toxic solid                                         | 151 | 3315 |
| Chloral, anhydrous, inhibited                                        | 153 | 2075 |
| Chlorate, n.o.s., wet                                                | 140 | 1461 |
| Chlorate and Borate mixtures                                         | 140 | 1458 |
| Chlorate and Magnesium chloride mixture                              | 140 | 1459 |
| Chlorates, inorganic, aqueous solution, n.o.s.                       | 140 | 3210 |
| Chlorates, inorganic, n.o.s.                                         | 140 | 1461 |
| Chloric acid                                                         | 140 | 2626 |
| Chloric acid, aqueous solution, with not more than 10% Chloric acid  | 140 | 2626 |
| Chlorine                                                             | 124 | 1017 |
| Chlorine dioxide, hydrate, frozen                                    | 143 | 9191 |
| Chlorine pentafluoride                                               | 124 | 2548 |
| Chlorine trifluoride                                                 | 124 | 1749 |
| Chlorite solution                                                    | 154 | 1908 |
| Chlorite solution, with more than 5% available Chlorine              | 154 | 1908 |
| Chlorites, inorganic, n.o.s.                                         | 143 | 1462 |
| Chloroacetaldehyde                                                   | 153 | 2232 |



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| Chloroacetic acid, liquid                                 | 153 | 1750 |
| Chloroacetic acid, molten                                 | 153 | 3250 |
| Chloroacetic acid, solid                                  | 153 | 1751 |
| Chloroacetic acid, solution                               | 153 | 1750 |
| Chloroacetone, stabilized                                 | 131 | 1695 |
| Chloroacetonitrile                                        | 131 | 2688 |
| Chloroacetophenone                                        | 153 | 1697 |
| Chloroacetophenone, liquid                                | 153 | 1697 |
| Chloroacetophenone, solid                                 | 153 | 1697 |
| Chloroacetyl chloride                                     | 156 | 1752 |
| Chloroanilines, liquid                                    | 152 | 2019 |
| Chloroanilines, solid                                     | 152 | 2018 |
| Chloroanisidines                                          | 152 | 2233 |
| Chlorobenzene                                             | 130 | 1134 |
| Chlorobenzotrifluorides                                   | 130 | 2234 |
| p-Chlorobenzoyl peroxide                                  | 146 | 2113 |
| p-Chlorobenzoyl peroxide                                  | 145 | 2114 |
| p-Chlorobenzoyl peroxide                                  | 145 | 2115 |
| Chlorobenzyl chlorides                                    | 153 | 2235 |
| 1-Chloro-3-bromopropane                                   | 159 | 2688 |
| Chlorobutanes                                             | 130 | 1127 |
| Chlorocresols                                             | 152 | 2669 |
| Chlorocresols, liquid                                     | 152 | 2669 |
| Chlorocresols, solid                                      | 152 | 2669 |
| 3-Chloro-4-diethylaminobenzenediazonium zinc chloride     | 149 | 3033 |
| Chlorodifluorobromomethane                                | 126 | 1974 |
| 1-Chloro-1,1-difluoroethane                               | 115 | 2517 |
| Chlorodifluoroethanes                                     | 115 | 2517 |
| Chlorodifluoromethane                                     | 126 | 1018 |
| Chlorodifluoromethane and Chloropentafluoroethane mixture | 126 | 1973 |
| Chlorodinitrobenzenes                                     | 153 | 1577 |
| 2-Chloroethanal                                           | 153 | 2232 |
| Chloroform                                                | 151 | 1888 |
| Chloroformates, n.o.s.                                    | 155 | 2742 |
| Chloroformates, poisonous, corrosive, flammable, n.o.s.   | 155 | 2742 |
| Chloroformates, poisonous, corrosive, n.o.s.              | 154 | 3277 |
| Chloroformates, toxic, corrosive, flammable, n.o.s.       | 155 | 2742 |
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| Compressed gas, toxic, flammable, n.o.s.                                       | 119 | 1953 |
| Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)            | 119 | 1953 |
| Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)            | 119 | 1953 |
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| Compressed gas, toxic, n.o.s.                                                  | 123 | 1955 |
| Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone A)                       | 123 | 1955 |
| Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone B)                       | 123 | 1955 |
| Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone C)                       | 123 | 1955 |
| Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone D)                       | 123 | 1955 |
| Compressed gas, toxic, oxidizing, corrosive, n.o.s.                            | 124 | 3306 |
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| Copper based pesticide, liquid, toxic, flammable                               | 131 | 3009 |
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| Corrosive liquid, basic, inorganic, n.o.s.                                     | 154 | 3266 |
| Corrosive liquid, basic, organic, n.o.s.                                       | 153 | 3267 |
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| Corrosive solid, basic, inorganic, n.o.s.                                  | 154  | 3262 |
| Corrosive solid, basic, organic, n.o.s.                                    | 154  | 3263 |
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| Cumene hydroperoxide                                                       | 147  | 2116 |
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| Cyanide solution, n.o.s.                                                   | 157  | 1935 |
| Cyanides, inorganic, n.o.s.                                                | 157  | 1588 |
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| Cyanogen                                                                   | 119  | 1026 |
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| Cyanogen bromide                                                           | 157  | 1889 |
| Cyanogen chloride, inhibited                                               | 125  | 1589 |
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| Cyclobutyl chloroformate                                                | 155  | 2744 |
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| Cycloheptane                                                            | 128  | 2241 |
| Cycloheptatriene                                                        | 131  | 2603 |
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| Cyclohexane                                                             | 128  | 1145 |
| Cyclohexanone                                                           | 127  | 1915 |
| Cyclohexanone peroxide, not more than 72% as a paste                    | 147  | 2896 |
| Cyclohexanone peroxide, not more than 72% in solution                   | 147  | 2118 |
| Cyclohexanone peroxide, not more than 90%, with not less than 10% water | 147  | 2119 |
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| Diazinon                                                                | 152  | 2783 |
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| Dibromomethane                                                                                               | 160 | 2664 |
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| Di-(4-tert-butylcyclohexyl)peroxydicarbonate                                                                 | 148 | 2894 |
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| 1,1-Di-(tert-butylperoxy)cyclohexane                                                                         | 145 | 2897 |
| Di-(sec-butyl)peroxydicarbonate                                                                              | 148 | 2150 |
| Di-(sec-butyl)peroxydicarbonate                                                                              | 148 | 2151 |
| 1,3-Di-(2-tert-butylperoxyisopropyl)benzene and 1,4-Di-(2-tert-butylperoxyisopropyl)benzene mixtures         | 145 | 2112 |
| 1,4-Di-(2-tert-butylperoxyisopropyl)benzene and 1,3-Di-(2-tert-butylperoxyisopropyl)benzene mixtures         | 145 | 2112 |
| Di-(tert-butylperoxy)phthalate                                                                               | 146 | 2106 |
| Di-(tert-butylperoxy)phthalate                                                                               | 145 | 2107 |
| Di-(tert-butylperoxy)phthalate                                                                               | 145 | 2108 |
| 2,2-Di-(tert-butylperoxy)propane                                                                             | 145 | 2883 |
| 2,2-Di-(tert-butylperoxy)propane                                                                             | 145 | 2884 |
| 1,1-Di-(tert-butylperoxy)-3,3,5-trimethyl cyclohexane                                                        | 146 | 2145 |
| 1,1-Di-(tert-butylperoxy)-3,3,5-trimethyl cyclohexane                                                        | 145 | 2146 |
| 1,1-Di-(tert-butylperoxy)-3,3,5-trimethyl cyclohexane                                                        | 145 | 2147 |
| Dicetyl peroxydicarbonate                                                                                    | 148 | 2164 |
| Dicetyl peroxydicarbonate, not more than 42%, in water                                                       | 148 | 2895 |
| Dichloroacetic acid                                                                                          | 153 | 1764 |
| 1,3-Dichloroacetone                                                                                          | 153 | 2649 |
| Dichloroacetyl chloride                                                                                      | 156 | 1765 |
| Dichloroanilines                                                                                             | 153 | 1590 |
| Dichloroanilines, liquid                                                                                     | 153 | 1590 |
| Dichloroanilines, solid                                                                                      | 153 | 1590 |
| o-Dichlorobenzene                                                                                            | 152 | 1591 |
| p-Dichlorobenzene                                                                                            | 152 | 1592 |
| 2,4-Dichlorobenzoyl peroxide                                                                                 | 146 | 2137 |
| 2,4-Dichlorobenzoyl peroxide                                                                                 | 145 | 2138 |
| 2,4-Dichlorobenzoyl peroxide                                                                                 | 145 | 2139 |
| Dichlorobutene                                                                                               | 132 | 2920 |
| Dichlorobutene                                                                                               | 132 | 2924 |
| 2,2'-Dichlorodiethyl ether                                                                                   | 152 | 1916 |
| Dichlorodifluoroethylene                                                                                     | 160 | 9018 |
| Dichlorodifluoromethane                                                                                      | 126 | 1028 |
| Dichlorodifluoromethane and Difluoroethane azeotropic mixture with approximately 74% dichlorodifluoromethane | 126 | 2602 |
| Dichlorodifluoromethane and Ethylene oxide mixture, with not more than 12.5% Ethylene oxide                  | 126 | 3070 |
| Dichlorodifluoromethane and Ethylene oxide mixtures, with not more than 12% Ethylene oxide                   | 126 | 3070 |



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| Dichlorodimethyl ether, symmetrical                     | 153  | 2249 |
| Dichlorodiphenyltrichloroethane (DDT)                   | 151  | 2761 |
| 1,1-Dichloroethane                                      | 130  | 2362 |
| 1,2-Dichloroethylene                                    | 132P | 1150 |
| Dichloroethylene                                        | 132P | 1150 |
| Dichloroethyl ether                                     | 152  | 1916 |
| 1,1-Dichloro-1-fluoroethane                             | 160  | 9274 |
| Dichlorofluoromethane                                   | 126  | 1029 |
| Dichloroisocyanuric acid, dry                           | 141  | 2465 |
| Dichloroisocyanuric acid salts                          | 141  | 2465 |
| Dichloroisopropyl ether                                 | 153  | 2490 |
| Dichloromethane                                         | 160  | 1593 |
| 1,1-Dichloro-1-nitroethane                              | 153  | 2650 |
| Dichloropentanes                                        | 130  | 1152 |
| 2,4-Dichlorophenoxyacetic acid                          | 152  | 2765 |
| Dichlorophenyl isocyanates                              | 156  | 2250 |
| Dichlorophenyltrichlorosilane                           | 156  | 1766 |
| Dichloropropane                                         | 130  | 1279 |
| 1,2-Dichloropropane                                     | 130  | 1279 |
| 1,3-Dichloropropanol-2                                  | 153  | 2750 |
| Dichloropropenes                                        | 132  | 2047 |
| 2,2-Dichloropropionic acid                              | 153  | 1760 |
| Dichlorosilane                                          | 119  | 2189 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane                  | 126  | 1958 |
| Dichlorotetrafluoroethane                               | 126  | 1958 |
| 3,5-Dichloro-2,4,6-trifluoropyridine                    | 151  | 9264 |
| Dichlorvos                                              | 152  | 2783 |
| Dicumyl peroxide                                        | 145  | 2121 |
| Dicycloheptadiene                                       | 127  | 2251 |
| Dicyclohexylamine                                       | 153  | 2565 |
| Dicyclohexylammonium nitrite                            | 153  | 2687 |
| Dicyclohexyl peroxydicarbonate                          | 148  | 2152 |
| Dicyclohexyl peroxydicarbonate                          | 148  | 2153 |
| Dicyclopentadiene                                       | 129  | 2048 |
| 2,2-Di-(4,4-di-tert-butylperoxycyclohexyl)propane       | 145  | 2168 |
| 1,2-Di-(dimethylamino)ethane                            | 129  | 2372 |
| Didymium nitrate                                        | 140  | 1465 |
| Dieldrin                                                | 151  | 2761 |
| Diesel fuel                                             | 128  | 1202 |
| Diesel fuel                                             | 128  | 1993 |
| Diethoxymethane                                         | 127  | 2373 |
| 2,5-Diethoxy-4-morpholinobenzenediazonium zinc chloride | 150  | 3036 |
| 3,3-Diethoxypropene                                     | 127  | 2374 |
| Diethylamine                                            | 132  | 1154 |
| 2-Diethylaminoethanol                                   | 132  | 2686 |
| Diethylaminoethanol                                     | 132  | 2686 |
| 3-Diethylaminopropylamine                               | 132  | 2684 |
| Diethylaminopropylamine                                 | 132  | 2684 |
| N,N-Diethylaniline                                      | 153  | 2432 |
| Diethylbenzene                                          | 130  | 2049 |
| Diethyl carbonate                                       | 127  | 2366 |
| Diethyldichlorosilane                                   | 155  | 1767 |
| Diethylenetriamine                                      | 154  | 2079 |
| Diethyl ether                                           | 127  | 1155 |
| N,N-Diethylethylenediamine                              | 132  | 2685 |
| Di-2-(ethylhexyl)peroxydicarbonate                      | 148  | 2122 |

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| Di-(2-ethylhexyl)peroxydicarbonate                                                                           | 148  | 2123 |
| Di-(2-ethylhexyl)phosphoric acid                                                                             | 153  | 1902 |
| Diethyl ketone                                                                                               | 127  | 1156 |
| Diethyl peroxydicarbonate                                                                                    | 148  | 2175 |
| Diethyl sulfate                                                                                              | 152  | 1594 |
| Diethyl sulfide                                                                                              | 129  | 2375 |
| Diethyl sulphate                                                                                             | 152  | 1594 |
| Diethyl sulphide                                                                                             | 129  | 2375 |
| Diethythiophosphoryl chloride                                                                                | 155  | 2751 |
| Diethylzinc                                                                                                  | 135  | 1366 |
| Difluorochloroethanes                                                                                        | 115  | 2517 |
| 1,1-Difluoroethane                                                                                           | 115  | 1030 |
| Difluoroethane                                                                                               | 115  | 1030 |
| Difluoroethane and Dichlorodifluoromethane azeotropic mixture with approximately 74% dichlorodifluoromethane | 126  | 2602 |
| 1,1-Difluoroethylene                                                                                         | 116  | 1959 |
| Difluoromethane                                                                                              | 115  | 3252 |
| Difluorophosphoric acid, anhydrous                                                                           | 154  | 1768 |
| 2,2-Dihydroperoxypropane                                                                                     | 146  | 2178 |
| 2,3-Dihydropyran                                                                                             | 127  | 2376 |
| Di-(1-hydroxycyclohexyl)peroxide                                                                             | 145  | 2148 |
| Diisobutylamine                                                                                              | 132  | 2361 |
| Diisobutylene, isomeric compounds                                                                            | 127  | 2050 |
| Diisobutyl ketone                                                                                            | 127  | 1157 |
| Diisobutyl peroxide                                                                                          | 148  | 2182 |
| Diisooctyl acid phosphate                                                                                    | 153  | 1902 |
| Diisopropylamine                                                                                             | 132  | 1158 |
| Diisopropylbenzene hydroperoxide                                                                             | 145  | 2171 |
| Diisopropyl ether                                                                                            | 127  | 1159 |
| Diisotridecyl peroxydicarbonate                                                                              | 148  | 2889 |
| Diketene, inhibited                                                                                          | 131P | 2521 |
| 1,1-Dimethoxyethane                                                                                          | 127  | 2377 |
| 1,2-Dimethoxyethane                                                                                          | 127  | 2252 |
| Dimethylamine, anhydrous                                                                                     | 118  | 1032 |
| Dimethylamine, aqueous solution                                                                              | 129  | 1160 |
| Dimethylamine, solution                                                                                      | 129  | 1160 |
| 2-Dimethylaminoacetonitrile                                                                                  | 131  | 2378 |
| 4-Dimethylamino-6-(2-dimethylaminoethoxy)toluene-2-diazonium zinc chloride                                   | 150  | 3039 |
| 2-Dimethylaminoethanol                                                                                       | 132  | 2051 |
| 2-Dimethylaminoethyl acrylate                                                                                | 152  | 3302 |
| Dimethylaminoethyl methacrylate                                                                              | 153P | 2522 |
| N,N-Dimethylaniline                                                                                          | 153  | 2253 |
| Di-(2-methylbenzoyl)peroxide                                                                                 | 148  | 2593 |
| 2,3-Dimethylbutane                                                                                           | 128  | 2457 |
| 1,3-Dimethylbutylamine                                                                                       | 132  | 2379 |
| Dimethylcarbonyl chloride                                                                                    | 156  | 2262 |
| Dimethyl carbonate                                                                                           | 129  | 1161 |
| Dimethyl chlorothiophosphate                                                                                 | 156  | 2267 |
| Dimethylcyclohexanes                                                                                         | 128  | 2263 |
| Dimethylcyclohexylamine                                                                                      | 132  | 2264 |
| 2,5-Dimethyl-2,5-di-(benzoylperoxy)hexane                                                                    | 146  | 2172 |
| 2,5-Dimethyl-2,5-di-(benzoylperoxy)hexane                                                                    | 145  | 2173 |
| 2,5-Dimethyl-2,5-di-(tert-butylperoxy)hexane                                                                 | 145  | 2155 |
| 2,5-Dimethyl-2,5-di-(tert-butylperoxy)hexane                                                                 | 145  | 2156 |
| 2,5-Dimethyl-2,5-di-(tert-butylperoxy)hexyne-3                                                               | 146  | 2158 |

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| 2,5-Dimethyl-2,5-di-(tert-butylperoxy)hexyne-3, with not more than 52% Peroxide in inert solid | 145 | 2159 |
| Dimethyldichlorosilane                                                                         | 155 | 1162 |
| Dimethyldiethoxysilane                                                                         | 127 | 2380 |
| 2,5-Dimethyl-2,5-di(2-ethylhexanoylperoxy)hexane                                               | 148 | 2157 |
| 2,5-Dimethyl-2,5-dihydroperoxy hexane, not more than 82% with water                            | 146 | 2174 |
| Dimethyldioxanes                                                                               | 128 | 2707 |
| Dimethyl disulfide                                                                             | 130 | 2381 |
| Dimethyl disulphide                                                                            | 130 | 2381 |
| Dimethylethanolamine                                                                           | 132 | 2051 |
| Dimethyl ether                                                                                 | 115 | 1033 |
| N,N-Dimethylformamide                                                                          | 129 | 2265 |
| Dimethylhexane dihydroperoxide, with 18% or more water                                         | 146 | 2174 |
| 1,1-Dimethylhydrazine                                                                          | 131 | 1163 |
| 1,2-Dimethylhydrazine                                                                          | 131 | 2382 |
| Dimethylhydrazine, symmetrical                                                                 | 131 | 2382 |
| Dimethylhydrazine, unsymmetrical                                                               | 131 | 1163 |
| Dimethyl phosphorochloridothioate                                                              | 156 | 2267 |
| 2,2-Dimethylpropane                                                                            | 115 | 2044 |
| Dimethyl-N-propylamine                                                                         | 132 | 2266 |
| Dimethyl sulfate                                                                               | 156 | 1595 |
| Dimethyl sulfide                                                                               | 130 | 1164 |
| Dimethyl sulphate                                                                              | 156 | 1595 |
| Dimethyl sulphide                                                                              | 130 | 1164 |
| Dimethyl thiophosphoryl chloride                                                               | 156 | 2267 |
| Dimethylzinc                                                                                   | 135 | 1370 |
| Dimyristyl peroxydicarbonate                                                                   | 148 | 2595 |
| Dimyristyl peroxydicarbonate, not more than 42%, in water                                      | 148 | 2892 |
| Dinitroanilines                                                                                | 153 | 1596 |
| Dinitrobenzenes                                                                                | 152 | 1597 |
| Dinitrochlorobenzene                                                                           | 153 | 1577 |
| Dinitro-o-cresol                                                                               | 153 | 1598 |
| Dinitrocyclohexylphenol                                                                        | 153 | 9026 |
| Dinitrogen tetroxide                                                                           | 124 | 1067 |
| Dinitrogen tetroxide, liquefied                                                                | 124 | 1067 |
| Dinitrogen tetroxide and Nitric oxide mixture                                                  | 124 | 1975 |
| Dinitrophenol, solution                                                                        | 153 | 1599 |
| Dinitrophenol, wetted with not less than 15% water                                             | 113 | 1320 |
| Dinitrophenolates, wetted with not less than 15% water                                         | 113 | 1321 |
| Dinitroresorcinol, wetted with not less than 15% water                                         | 113 | 1322 |
| N,N'-Dinitroso-N,N'-dimethyl terephthalamide                                                   | 149 | 2973 |
| N,N'-Dinitrosopentamethylene tetramine                                                         | 149 | 2972 |
| Dinitrotoluenes                                                                                | 152 | 2038 |
| Dinitrotoluenes, liquid                                                                        | 152 | 2038 |
| Dinitrotoluenes, molten                                                                        | 152 | 1600 |
| Dinitrotoluenes, solid                                                                         | 152 | 2038 |
| Dioxane                                                                                        | 127 | 1165 |
| Dioxolane                                                                                      | 127 | 1166 |
| Dipentene                                                                                      | 128 | 2052 |
| Diphenylamine chloroarsine                                                                     | 154 | 1698 |
| Diphenylchloroarsine                                                                           | 151 | 1699 |
| Diphenylchloroarsine, liquid                                                                   | 151 | 1699 |
| Diphenylchloroarsine, solid                                                                    | 151 | 1699 |
| Dipenyldichlorosilane                                                                          | 156 | 1769 |
| Diphenylmethane-4,4'-diisocyanate                                                              | 156 | 2489 |
| Diphenylmethyl bromide                                                                         | 153 | 1770 |

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| Diphenyloxide-4,4'-disulfohydrazide                     | 149  | 2951 |
| Diphenyloxide-4,4'-disulphohydrazide                    | 149  | 2951 |
| Diphosgene                                              | 125  | 1076 |
| Dipicryl sulfide, wetted with not less than 10% water   | 113  | 2852 |
| Dipicryl sulphide, wetted with not less than 10% water  | 113  | 2852 |
| Dipropylamine                                           | 132  | 2383 |
| 4-Dipropylaminobenzenediazonium zinc chloride           | 149  | 3034 |
| Di-n-propyl ether                                       | 127  | 2384 |
| Dipropyl ether                                          | 127  | 2384 |
| Dipropyl ketone                                         | 127  | 2710 |
| Di-n-propyl peroxydicarbonate                           | 148  | 2176 |
| Disinfectant, liquid, corrosive, n.o.s.                 | 153  | 1903 |
| Disinfectant, liquid, n.o.s.                            | 128  | 1993 |
| Disinfectant, liquid, poisonous, n.o.s.                 | 151  | 3142 |
| Disinfectant, liquid, toxic, n.o.s.                     | 151  | 3142 |
| Disinfectant, solid, poisonous, n.o.s.                  | 151  | 1601 |
| Disinfectant, solid, toxic, n.o.s.                      | 151  | 1601 |
| Disinfectants, corrosive, liquid, n.o.s.                | 153  | 1903 |
| Disinfectants, liquid, n.o.s. (poisonous)               | 151  | 3142 |
| Disinfectants, solid, n.o.s. (poisonous)                | 151  | 1601 |
| Disodium trioxosilicate                                 | 154  | 3253 |
| Disodium trioxosilicate, pentahydrate                   | 154  | 3253 |
| Dispersant gas, n.o.s.                                  | 126  | 1078 |
| Dispersant gas, n.o.s. (flammable)                      | 115  | 1954 |
| Distearyl peroxydicarbonate                             | 145  | 2592 |
| Disulfoton                                              | 152  | 2783 |
| Dithiocarbamate pesticide, liquid, flammable, poisonous | 131  | 2772 |
| Dithiocarbamate pesticide, liquid, flammable, toxic     | 131  | 2772 |
| Dithiocarbamate pesticide, liquid, poisonous            | 151  | 3006 |
| Dithiocarbamate pesticide, liquid, poisonous, flammable | 131  | 3005 |
| Dithiocarbamate pesticide, liquid, toxic                | 151  | 3006 |
| Dithiocarbamate pesticide, liquid, toxic, flammable     | 131  | 3005 |
| Dithiocarbamate pesticide, solid, poisonous             | 151  | 2771 |
| Dithiocarbamate pesticide, solid, toxic                 | 151  | 2771 |
| Di-(3,5,5-trimethyl-1,2-dioxolanyl-3)peroxide           | 148  | 2597 |
| Divinyl ether, inhibited                                | 131P | 1167 |
| Dodecylbenzenesulfonic acid                             | 153  | 2584 |
| Dodecylbenzenesulphonic acid                            | 153  | 2584 |
| Dodecyltrichlorosilane                                  | 156  | 1771 |
| Driers, paint or varnish, liquid, n.o.s.                | 127  | 1168 |
| Drugs, liquid, n.o.s.                                   | 153  | 1760 |
| Drugs, liquid, n.o.s.                                   | 153  | 2810 |
| Drugs, n.o.s.                                           | 133  | 1325 |
| Drugs, n.o.s.                                           | 140  | 1479 |
| Drugs, n.o.s.                                           | 128  | 1993 |
| Drugs, solid, n.o.s.                                    | 154  | 1759 |
| Drugs, solid, n.o.s.                                    | 154  | 2811 |
| Dry ice                                                 | 120  | 1845 |
| Dye, liquid, corrosive, n.o.s.                          | 154  | 2801 |
| Dye, liquid, poisonous, n.o.s.                          | 151  | 1602 |
| Dye, liquid, toxic, n.o.s.                              | 151  | 1602 |
| Dye, solid, corrosive, n.o.s.                           | 154  | 3147 |
| Dye, solid, poisonous, n.o.s.                           | 151  | 3143 |
| Dye, solid, toxic, n.o.s.                               | 151  | 3143 |
| Dye intermediate, liquid, corrosive, n.o.s.             | 154  | 2801 |
| Dye intermediate, liquid, poisonous, n.o.s.             | 151  | 1602 |

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| Dye intermediate, liquid, toxic, n.o.s.                                                                            | 151  | 1602 |
| Dye intermediate, solid, corrosive, n.o.s.                                                                         | 154  | 3147 |
| Dye intermediate, solid, poisonous, n.o.s.                                                                         | 151  | 3143 |
| Dye intermediate, solid, toxic, n.o.s.                                                                             | 151  | 3143 |
| EDTA                                                                                                               | 171  | 9117 |
| Elevated temperature liquid, flammable, n.o.s., with flash point above 37.8°C (100°F), at or above its flash point | 128  | 3256 |
| Elevated temperature liquid, flammable, n.o.s., with flash point above 60.5°C (141°F), at or above its flash point | 128  | 3256 |
| Elevated temperature liquid, n.o.s., at or above 100°C (212°F) and below its flash point                           | 128  | 3257 |
| Elevated temperature material, liquid, n.o.s., (at or above 100°C (212°F) and below its flash point)               | 128  | 9259 |
| Elevated temperature solid, n.o.s., at or above 240°C (464°F)                                                      | 171  | 3258 |
| Endosulfan                                                                                                         | 151  | 2761 |
| Engines, internal combustion, including when fitted in machinery or vehicles                                       | 128  | 3166 |
| Engine starting fluid                                                                                              | 115  | 1960 |
| Environmentally hazardous substances, liquid, n.o.s.                                                               | 171  | 3082 |
| Environmentally hazardous substances, solid, n.o.s.                                                                | 171  | 3077 |
| Epibromohydrin                                                                                                     | 131  | 2558 |
| Epichlorohydrin                                                                                                    | 131P | 2023 |
| 1,2-Epoxy-3-ethoxypropane                                                                                          | 127  | 2752 |
| Esters, n.o.s.                                                                                                     | 127  | 3272 |
| Etching acid, liquid, n.o.s.                                                                                       | 157  | 1790 |
| Ethane                                                                                                             | 115  | 1035 |
| Ethane, compressed                                                                                                 | 115  | 1035 |
| Ethane, refrigerated liquid                                                                                        | 115  | 1961 |
| Ethane-Propane mixture, refrigerated liquid                                                                        | 115  | 1961 |
| Ethanol                                                                                                            | 127  | 1170 |
| Ethanol, solution                                                                                                  | 127  | 1170 |
| Ethanolamine                                                                                                       | 153  | 2491 |
| Ethanolamine, solution                                                                                             | 153  | 2491 |
| Ethers, n.o.s.                                                                                                     | 127  | 3271 |
| Ethion                                                                                                             | 152  | 2783 |
| Ethyl acetate                                                                                                      | 129  | 1173 |
| Ethyl acetylene, inhibited                                                                                         | 116P | 2452 |
| Ethyl acrylate, inhibited                                                                                          | 129P | 1917 |
| Ethyl alcohol                                                                                                      | 127  | 1170 |
| Ethyl alcohol, solution                                                                                            | 127  | 1170 |
| Ethylamine                                                                                                         | 118  | 1036 |
| Ethylamine, aqueous solution, with not less than 50% but not more than 70% Ethylamine                              | 132  | 2270 |
| Ethyl amyl ketone                                                                                                  | 127  | 2271 |
| 2-Ethylaniline                                                                                                     | 153  | 2273 |
| N-Ethylaniline                                                                                                     | 153  | 2272 |
| Ethylbenzene                                                                                                       | 129  | 1175 |
| N-Ethyl-N-benzylaniline                                                                                            | 153  | 2274 |
| N-Ethylbenzyltoluidines                                                                                            | 153  | 2753 |
| Ethyl borate                                                                                                       | 129  | 1176 |
| Ethyl bromide                                                                                                      | 131  | 1891 |
| Ethyl bromoacetate                                                                                                 | 155  | 1603 |
| 2-Ethylbutanol                                                                                                     | 129  | 2275 |
| 2-Ethylbutyl acetate                                                                                               | 129  | 1177 |
| Ethylbutyl acetate                                                                                                 | 129  | 1177 |

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| Ethyl butyl ether                                                                                                                                                       | 127  | 1179 |
| 2-Ethylbutyraldehyde                                                                                                                                                    | 129  | 1178 |
| Ethyl butyrate                                                                                                                                                          | 129  | 1180 |
| Ethyl chloride                                                                                                                                                          | 115  | 1037 |
| Ethyl chloroacetate                                                                                                                                                     | 155  | 1181 |
| Ethyl chloroformate                                                                                                                                                     | 155  | 1182 |
| Ethyl 2-chloropropionate                                                                                                                                                | 132  | 2935 |
| Ethyl chlorothioformate                                                                                                                                                 | 155  | 2826 |
| Ethyl crotonate                                                                                                                                                         | 129  | 1862 |
| Ethyl cyanoacetate                                                                                                                                                      | 156  | 2666 |
| Ethyl-3,3-di-(tert-butylperoxy)butyrate                                                                                                                                 | 146  | 2184 |
| Ethyl-3,3-di-(tert-butylperoxy)butyrate                                                                                                                                 | 145  | 2598 |
| Ethyl-3,3-di-(tert-butylperoxy)butyrate, not more than 77% in solution                                                                                                  | 145  | 2185 |
| Ethylidichloroarsine                                                                                                                                                    | 151  | 1892 |
| Ethylidichlorosilane                                                                                                                                                    | 139  | 1183 |
| Ethylene                                                                                                                                                                | 116P | 1962 |
| Ethylene, Acetylene and Propylene in mixture, refrigerated liquid containing at least 71.5% Ethylene with not more than 22.5% Acetylene and not more than 6% Propylene. | 116  | 3138 |
| Ethylene, compressed                                                                                                                                                    | 116P | 1962 |
| Ethylene, refrigerated liquid (cryogenic liquid)                                                                                                                        | 115  | 1038 |
| Ethylene chlorohydrin                                                                                                                                                   | 131  | 1135 |
| Ethylenediamine                                                                                                                                                         | 132  | 1604 |
| Ethylenediaminetetraacetic acid                                                                                                                                         | 171  | 9117 |
| Ethylene dibromide                                                                                                                                                      | 154  | 1605 |
| Ethylene dibromide and Methyl bromide mixture, liquid                                                                                                                   | 151  | 1647 |
| Ethylene dichloride                                                                                                                                                     | 129  | 1184 |
| Ethylene glycol diethyl ether                                                                                                                                           | 127  | 1153 |
| Ethylene glycol monobutyl ether                                                                                                                                         | 152  | 2369 |
| Ethylene glycol monoethyl ether                                                                                                                                         | 127  | 1171 |
| Ethylene glycol monoethyl ether acetate                                                                                                                                 | 129  | 1172 |
| Ethylene glycol monomethyl ether                                                                                                                                        | 127  | 1188 |
| Ethylene glycol monomethyl ether acetate                                                                                                                                | 129  | 1189 |
| Ethyleneimine, inhibited                                                                                                                                                | 131P | 1185 |
| Ethylene oxide                                                                                                                                                          | 119  | 1040 |
| Ethylene oxide and Carbon dioxide mixture, with more than 9% but not more than 87% Ethylene oxide                                                                       | 115  | 1041 |
| Ethylene oxide and Carbon dioxide mixture, with more than 87%                                                                                                           | 119  | 3300 |
| Ethylene oxide                                                                                                                                                          | 126  | 1952 |
| Ethylene oxide and Carbon dioxide mixtures, with not more than 9%                                                                                                       | 126  | 1952 |
| Ethylene oxide                                                                                                                                                          | 115  | 1041 |
| Ethylene oxide and Carbon dioxide mixtures, with not more than 6%                                                                                                       | 126  | 1952 |
| Ethylene oxide                                                                                                                                                          | 126  | 3297 |
| Ethylene oxide and Chlorotetrafluoroethane mixture, with not more than 8.8% Ethylene oxide                                                                              | 126  | 3070 |
| Ethylene oxide and Dichlorodifluoromethane mixture, with not more than 12.5% Ethylene oxide                                                                             | 126  | 3070 |
| Ethylene oxide and Dichlorodifluoromethane mixtures, with not more than 12% Ethylene oxide                                                                              | 126  | 3298 |
| Ethylene oxide and Pentafluoroethane mixture, with not more than 7.9% Ethylene oxide                                                                                    | 126  | 2983 |
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| Flammable liquid, toxic, corrosive, n.o.s.                     | 131 | 3286 |
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| Flammable solid, inorganic, corrosive, n.o.s.                  | 134 | 3180 |
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| Flammable solid, poisonous, organic, n.o.s.                    | 134 | 2926 |
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| Fuel oil                                                                           | 128  | 1202 |
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| Fuel oil, no. 1,2,4,5,6                                                            | 128  | 1202 |
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| Furan                                                                              | 127  | 2389 |
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| Hazardous waste, liquid, n.o.s.                     | 171 | 9189 |
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| Hazardous waste, solid, n.o.s.                      | 171 | 9189 |
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| Heating oil, light                                  | 128 | 1202 |
| Heat producing article                              | 171 | 8038 |
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| Hexamethylenediamine, solid                         | 153 | 2280 |
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| Hydrazine, aqueous solution, with not more than 37% Hydrazine                       | 152 | 3293 |
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| Hydrazine, aqueous solutions, with not more than 64% Hydrazine                      | 153 | 2030 |
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| Hydrocarbon gas refills for small devices, with release device                      | 115 | 3150 |
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| Hydrochloric acid, solution                                                         | 157 | 1789 |
| Hydrocyanic acid, aqueous solution, with less than 5% Hydrogen cyanide              | 154 | 1613 |
| Hydrocyanic acid, aqueous solution, with not more than 20% Hydrogen cyanide         | 154 | 1613 |
| Hydrocyanic acid, aqueous solutions, with more than 20% Hydrogen cyanide            | 117 | 1051 |
| Hydrocyanic acid, liquefied                                                         | 117 | 1051 |
| Hydrofluoric acid                                                                   | 157 | 1790 |
| Hydrofluoric acid, solution                                                         | 157 | 1790 |
| Hydrofluoric acid and Sulfuric acid mixture                                         | 157 | 1786 |
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| Hydrofluosilicic acid                                                               | 154 | 1778 |
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| Hydrogen, compressed                                                                | 115 | 1049 |
| Hydrogen, refrigerated liquid (cryogenic liquid)                                    | 115 | 1966 |
| Hydrogen and Carbon monoxide mixture                                                | 119 | 2600 |
| Hydrogen and Carbon monoxide mixture, compressed                                    | 119 | 2600 |
| Hydrogen and Methane mixture, compressed                                            | 115 | 2034 |
| Hydrogen bromide, anhydrous                                                         | 125 | 1048 |
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| Hydrogen cyanide, anhydrous, stabilized                                             | 117 | 1051 |
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| Hydrogen cyanide, solution in alcohol, with not more than 45% Hydrogen cyanide      | 131 | 3294 |
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| Hydrogendifluorides, n.o.s.                                                         | 154 | 1740 |
| Hydrogen fluoride, anhydrous                                                        | 125 | 1052 |
| Hydrogen iodide, anhydrous                                                          | 125 | 2197 |
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| Hydrogen peroxide                                                                   | 143 | 2015 |

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| Hydrogen peroxide, aqueous solution, with not less than 8% but less than 20% Hydrogen peroxide                                | 140  | 2984 |
| Hydrogen peroxide, aqueous solution, with not less than 20% but not more than 60% Hydrogen peroxide (stabilized as necessary) | 140  | 2014 |
| Hydrogen peroxide, stabilized                                                                                                 | 143  | 2015 |
| Hydrogen peroxide and Peroxyacetic acid mixture, with acid(s), water and not more than 5% Peroxyacetic acid, stabilized       | 140  | 3149 |
| Hydrogen selenide, anhydrous                                                                                                  | 117  | 2202 |
| Hydrogen sulfide                                                                                                              | 117  | 1053 |
| Hydrogen sulfide, liquefied                                                                                                   | 117  | 1053 |
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| Hydrogen sulphide, liquefied                                                                                                  | 117  | 1053 |
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| 3,3'-Iminodipropylamine                                                                                                       | 153  | 2269 |
| Infectious substance, affecting animals only                                                                                  | 158  | 2900 |
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| Ink, printer's, flammable                                                                                                     | 129  | 1210 |
| Insecticide, dry, n.o.s.                                                                                                      | 151  | 2588 |
| Insecticide, liquefied gas                                                                                                    | 126  | 1968 |
| Insecticide, liquefied gas, containing Poison A or Poison B material                                                          | 123  | 1967 |
| Insecticide, liquid, poisonous, n.o.s.                                                                                        | 151  | 2902 |
| Insecticide gas, flammable, n.o.s.                                                                                            | 115  | 1954 |
| Insecticide gas, n.o.s.                                                                                                       | 126  | 1968 |
| Insecticide gas, poisonous, n.o.s.                                                                                            | 123  | 1967 |
| Insecticide gas, toxic, n.o.s.                                                                                                | 123  | 1967 |
| Iodine monochloride                                                                                                           | 157  | 1792 |
| Iodine pentafluoride                                                                                                          | 144  | 2495 |
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| Iron pentacarbonyl                                                                                                            | 131  | 1994 |
| Iron sponge, spent                                                                                                            | 135  | 1376 |
| Irritating agent, n.o.s.                                                                                                      | 159  | 1693 |
| Isobutane                                                                                                                     | 115  | 1075 |
| Isobutane                                                                                                                     | 115  | 1969 |
| Isobutane mixture                                                                                                             | 115  | 1075 |
| Isobutane mixture                                                                                                             | 115  | 1969 |
| Isobutanol                                                                                                                    | 129  | 1212 |
| Isobutyl acetate                                                                                                              | 129  | 1213 |
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| Isobutyl chloroformate                                                                                                        | 155  | 2742 |
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| Isocyanate solution, flammable, toxic, n.o.s.     | 155  | 2478 |
| Isocyanate solution, poisonous, flammable, n.o.s. | 155  | 3080 |
| Isocyanate solution, poisonous, n.o.s.            | 155  | 2206 |
| Isocyanate solution, toxic, flammable, n.o.s.     | 155  | 3080 |
| Isocyanate solution, toxic, n.o.s.                | 155  | 2206 |
| Isocyanate solutions, n.o.s.                      | 155  | 2206 |
| Isocyanate solutions, n.o.s.                      | 155  | 2478 |
| Isocyanate solutions, n.o.s.                      | 155  | 3080 |
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| Isocyanates, flammable, poisonous, n.o.s.         | 155  | 2478 |
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| Isocyanates, n.o.s.                               | 155  | 2478 |
| Isocyanates, n.o.s.                               | 155  | 3080 |
| Isocyanates, n.o.s. (toxic)                       | 155  | 2207 |
| Isocyanates, poisonous, flammable, n.o.s.         | 155  | 3080 |
| Isocyanates, poisonous, n.o.s.                    | 155  | 2206 |
| Isocyanates, toxic, flammable, n.o.s.             | 155  | 3080 |
| Isocyanates, toxic, n.o.s.                        | 155  | 2206 |
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| Isononanoyl peroxide                              | 148  | 2128 |
| Isooctane                                         | 128  | 1262 |
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| Isophorone diisocyanate                           | 156  | 2290 |
| Isoprene, inhibited                               | 130P | 1218 |
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| Isopropanolamine dodecylbenzenesulfonate          | 171  | 9127 |
| Isopropanolamine dodecylbenzenesulphonate         | 171  | 9127 |
| Isopropenyl acetate                               | 129P | 2403 |
| Isopropenylbenzene                                | 128  | 2303 |
| Isopropyl acetate                                 | 129  | 1220 |
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| Isopropyl alcohol                                 | 129  | 1219 |
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| Isopropylbenzene                                  | 131  | 1918 |
| Isopropyl butyrate                                | 129  | 2405 |
| Isopropyl chloroacetate                           | 156  | 2947 |
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| Isopropyl isobutyrate                                                  | 131 | 2406 |
| Isopropyl isocyanate                                                   | 155 | 2483 |
| Isopropyl mercaptan                                                    | 130 | 2402 |
| Isopropyl nitrate                                                      | 130 | 1222 |
| Isopropyl percarbonate, unstabilized                                   | 148 | 2133 |
| Isopropyl peroxydicarbonate                                            | 148 | 2133 |
| Isopropyl peroxydicarbonate                                            | 148 | 2134 |
| Isopropyl propionate                                                   | 129 | 2409 |
| Isosorbide dinitrate mixture                                           | 133 | 2907 |
| Isosorbide-5-mononitrate                                               | 133 | 3251 |
| Kerosene                                                               | 128 | 1223 |
| Ketones, liquid, n.o.s.                                                | 127 | 1224 |
| Krypton                                                                | 121 | 1056 |
| Krypton, compressed                                                    | 121 | 1056 |
| Krypton, refrigerated liquid (cryogenic liquid)                        | 120 | 1870 |
| Lacquer chips, dry                                                     | 133 | 2557 |
| Lauroyl peroxide                                                       | 145 | 2124 |
| Lauroyl peroxide, not more than 42%, stable dispersion, in water       | 145 | 2893 |
| Leachable toxic waste                                                  | 151 | 9500 |
| Lead acetate                                                           | 151 | 1616 |
| Lead arsenates                                                         | 151 | 1617 |
| Lead arsenites                                                         | 151 | 1618 |
| Lead chloride                                                          | 151 | 2291 |
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| Lead cyanide                                                           | 151 | 1620 |
| Lead dioxide                                                           | 141 | 1872 |
| Lead fluoborate                                                        | 151 | 2291 |
| Lead fluoride                                                          | 154 | 2811 |
| Lead nitrate                                                           | 141 | 1469 |
| Lead perchlorate                                                       | 141 | 1470 |
| Lead perchlorate, solid                                                | 141 | 1470 |
| Lead perchlorate, solution                                             | 141 | 1470 |
| Lead peroxide                                                          | 141 | 1872 |
| Lead phosphite, dibasic                                                | 133 | 2989 |
| Lead sulfate, with more than 3% free acid                              | 154 | 1794 |
| Lead sulphate, with more than 3% free acid                             | 154 | 1794 |
| Life-saving appliances, not self-inflating                             | 171 | 3072 |
| Life-saving appliances, self-inflating                                 | 171 | 2990 |
| Lighters (cigarettes) (flammable gas)                                  | 115 | 1057 |
| Lighters for cigars, cigarettes etc. with lighter fluid                | 127 | 1226 |
| Lighters for cigars, cigarettes (flammable liquid)                     | 127 | 1226 |
| Lighter refills (cigarettes) (flammable gas)                           | 115 | 1057 |
| Lindane                                                                | 151 | 2761 |
| Liquefied gas (nonflammable)                                           | 121 | 1058 |
| Liquefied gas, flammable, n.o.s.                                       | 115 | 1954 |
| Liquefied gas, flammable, n.o.s.                                       | 115 | 3161 |
| Liquefied gas, flammable, poisonous, n.o.s.                            | 119 | 1953 |
| Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A) | 119 | 1953 |
| Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone B) | 119 | 1953 |
| Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone C) | 119 | 1953 |
| Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone D) | 119 | 1953 |
| Liquefied gas, flammable, toxic, n.o.s.                                | 119 | 1953 |
| Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone A)     | 119 | 1953 |
| Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone B)     | 119 | 1953 |
| Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone C)     | 119 | 1953 |
| Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone D)     | 119 | 1953 |

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| Liquefied gas, n.o.s.                                                             | 126 | 1956 |
| Liquefied gas, n.o.s.                                                             | 126 | 3163 |
| Liquefied gas, oxidizing, n.o.s.                                                  | 122 | 3157 |
| Liquefied gas, poisonous, corrosive, n.o.s.                                       | 123 | 3308 |
| Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone A)            | 123 | 3308 |
| Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone B)            | 123 | 3308 |
| Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone C)            | 123 | 3308 |
| Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)            | 123 | 3308 |
| Liquefied gas, poisonous, flammable, corrosive, n.o.s.                            | 119 | 3309 |
| Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A) | 119 | 3309 |
| Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B) | 119 | 3309 |
| Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C) | 119 | 3309 |
| Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D) | 119 | 3309 |
| Liquefied gas, poisonous, flammable, n.o.s.                                       | 119 | 3160 |
| Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)            | 119 | 3160 |
| Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)            | 119 | 3160 |
| Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)            | 119 | 3160 |
| Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)            | 119 | 3160 |
| Liquefied gas, poisonous, n.o.s.                                                  | 123 | 1955 |
| Liquefied gas, poisonous, n.o.s.                                                  | 123 | 3162 |
| Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)                       | 123 | 3162 |
| Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)                       | 123 | 1955 |
| Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)                       | 123 | 3162 |
| Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)                       | 123 | 1955 |
| Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)                       | 123 | 3162 |
| Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)                       | 123 | 1955 |
| Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)                       | 123 | 3162 |
| Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)                       | 123 | 1955 |
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| Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A) | 124 | 3310 |
| Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B) | 124 | 3310 |
| Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C) | 124 | 3310 |
| Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D) | 124 | 3310 |
| Liquefied gas, poisonous, oxidizing, n.o.s.                                       | 124 | 3307 |
| Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone A)            | 124 | 3307 |
| Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)            | 124 | 3307 |
| Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone C)            | 124 | 3307 |
| Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)            | 124 | 3307 |
| Liquefied gas, toxic, corrosive, n.o.s.                                           | 123 | 3308 |
| Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone A)                | 123 | 3308 |
| Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone B)                | 123 | 3308 |
| Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone C)                | 123 | 3308 |
| Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone D)                | 123 | 3308 |
| Liquefied gas, toxic, flammable, corrosive, n.o.s.                                | 119 | 3309 |
| Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)     | 119 | 3309 |
| Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)     | 119 | 3309 |

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| Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C) | 119 | 3309 |
| Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D) | 119 | 3309 |
| Liquefied gas, toxic, flammable, n.o.s.                                       | 119 | 3160 |
| Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)            | 119 | 3160 |
| Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)            | 119 | 3160 |
| Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)            | 119 | 3160 |
| Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)            | 119 | 3160 |
| Liquefied gas, toxic, n.o.s.                                                  | 123 | 1955 |
| Liquefied gas, toxic, n.o.s.                                                  | 123 | 3162 |
| Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)                       | 123 | 1955 |
| Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)                       | 123 | 3162 |
| Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)                       | 123 | 1955 |
| Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)                       | 123 | 3162 |
| Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)                       | 123 | 1955 |
| Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)                       | 123 | 3162 |
| Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)                       | 123 | 1955 |
| Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)                       | 123 | 3162 |
| Liquefied gas, toxic, oxidizing, corrosive, n.o.s.                            | 124 | 3310 |
| Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A) | 124 | 3310 |
| Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B) | 124 | 3310 |
| Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C) | 124 | 3310 |
| Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D) | 124 | 3310 |
| Liquefied gas, toxic, oxidizing, n.o.s.                                       | 124 | 3307 |
| Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone A)            | 124 | 3307 |
| Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)            | 124 | 3307 |
| Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C)            | 124 | 3307 |
| Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)            | 124 | 3307 |
| Liquefied natural gas (cryogenic liquid)                                      | 115 | 1972 |
| Liquefied petroleum gas                                                       | 115 | 1075 |
| Lithium                                                                       | 138 | 1415 |
| Lithium acetylide-Ethylenediamine complex                                     | 138 | 2813 |
| Lithium alkyls                                                                | 135 | 2445 |
| Lithium aluminum hydride                                                      | 138 | 1410 |
| Lithium aluminum hydride, ethereal                                            | 138 | 1411 |
| Lithium amide                                                                 | 139 | 1412 |
| Lithium batteries                                                             | 138 | 3090 |
| Lithium batteries, liquid or solid cathode                                    | 138 | 3090 |
| Lithium batteries contained in equipment                                      | 138 | 3091 |
| Lithium batteries packed with equipment                                       | 138 | 3091 |
| Lithium borohydride                                                           | 138 | 1413 |
| Lithium chromate                                                              | 171 | 9134 |
| Lithium ferrosilicon                                                          | 139 | 2830 |
| Lithium hydride                                                               | 138 | 1414 |
| Lithium hydride, fused solid                                                  | 138 | 2805 |
| Lithium hydroxide, monohydrate                                                | 154 | 2680 |
| Lithium hydroxide, solid                                                      | 154 | 2680 |
| Lithium hydroxide, solution                                                   | 154 | 2679 |
| Lithium hypochlorite, dry                                                     | 140 | 1471 |
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| Lithium hypochlorite mixtures, dry                                            | 140 | 1471 |



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| Lithium nitrate                                                                 | 140 | 2722 |
| Lithium nitride                                                                 | 138 | 2806 |
| Lithium peroxide                                                                | 143 | 1472 |
| Lithium silicon                                                                 | 138 | 1417 |
| LNG (cryogenic liquid)                                                          | 115 | 1972 |
| London purple                                                                   | 151 | 1621 |
| LPG                                                                             | 115 | 1075 |
| Magnesium                                                                       | 138 | 1869 |
| Magnesium, in pellets, turnings or ribbons                                      | 138 | 1869 |
| Magnesium alkyls                                                                | 135 | 3053 |
| Magnesium alloys, with more than 50% Magnesium, in pellets, turnings or ribbons | 138 | 1869 |
| Magnesium alloys powder                                                         | 138 | 1418 |
| Magnesium aluminum phosphide                                                    | 139 | 1419 |
| Magnesium arsenate                                                              | 151 | 1622 |
| Magnesium bisulfite solution                                                    | 154 | 2693 |
| Magnesium bisulphite solution                                                   | 154 | 2693 |
| Magnesium bromate                                                               | 140 | 1473 |
| Magnesium chlorate                                                              | 140 | 2723 |
| Magnesium chloride and Chlorate mixture                                         | 140 | 1459 |
| Magnesium diamide                                                               | 135 | 2004 |
| Magnesium diphenyl                                                              | 135 | 2005 |
| Magnesium fluorosilicate                                                        | 151 | 2853 |
| Magnesium granules, coated                                                      | 138 | 2950 |
| Magnesium hydride                                                               | 138 | 2010 |
| Magnesium nitrate                                                               | 140 | 1474 |
| Magnesium perchlorate                                                           | 140 | 1475 |
| Magnesium peroxide                                                              | 140 | 1476 |
| Magnesium phosphide                                                             | 139 | 2011 |
| Magnesium powder                                                                | 138 | 1418 |
| Magnesium scrap                                                                 | 138 | 1869 |
| Magnesium silicide                                                              | 138 | 2624 |
| Magnetized material                                                             | 171 | 2807 |
| Maleic acid                                                                     | 156 | 2215 |
| Maleic anhydride                                                                | 156 | 2215 |
| Malononitrile                                                                   | 153 | 2647 |
| Maneb                                                                           | 135 | 2210 |
| Maneb, stabilized                                                               | 135 | 2968 |
| Maneb preparation, stabilized                                                   | 135 | 2968 |
| Maneb preparation, with not less than 60% Maneb                                 | 135 | 2210 |
| Manganese nitrate                                                               | 140 | 2724 |
| Manganese resinate                                                              | 133 | 1330 |
| Matches, fusee                                                                  | 133 | 2254 |
| Matches, safety                                                                 | 133 | 1944 |
| Matches, "strike anywhere"                                                      | 133 | 1331 |
| Matches, wax "vesta"                                                            | 133 | 1945 |
| Medical waste, n.o.s.                                                           | 158 | 3291 |
| Medicine, liquid, flammable, toxic, n.o.s.                                      | 131 | 3248 |
| Medicine, liquid, toxic, n.o.s.                                                 | 151 | 1851 |
| Medicine, solid, toxic, n.o.s.                                                  | 151 | 3249 |
| Medicines, corrosive, liquid, n.o.s.                                            | 154 | 1760 |
| Medicines, corrosive, solid, n.o.s.                                             | 154 | 1759 |
| Medicines, flammable, liquid, n.o.s.                                            | 128 | 1993 |
| Medicines, flammable, solid, n.o.s.                                             | 133 | 1325 |
| Medicines, liquid, flammable, poisonous, n.o.s.                                 | 131 | 3248 |
| Medicines, liquid, poisonous, n.o.s.                                            | 151 | 1851 |

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| Medicines, oxidizing substances, solid, n.o.s.          | 140 | 1479 |
| Medicines, poisonous, liquid, n.o.s.                    | 153 | 2810 |
| Medicines, poisonous, solid, n.o.s.                     | 154 | 2811 |
| Medicines, solid, poisonous, n.o.s.                     | 151 | 3249 |
| Medicines, toxic, liquid, n.o.s.                        | 153 | 2810 |
| Medicines, toxic, solid, n.o.s.                         | 154 | 2811 |
| Menthane hydroperoxide, para, technical pure            | 147 | 2125 |
| Mercaptan mixture, aliphatic                            | 131 | 1228 |
| Mercaptan mixture, liquid, flammable, poisonous, n.o.s. | 131 | 1228 |
| Mercaptan mixture, liquid, flammable, toxic, n.o.s.     | 131 | 1228 |
| Mercaptan mixture, liquid, poisonous, flammable, n.o.s. | 131 | 3071 |
| Mercaptan mixture, liquid, toxic, flammable, n.o.s.     | 131 | 3071 |
| Mercaptan mixtures, liquid, n.o.s.                      | 131 | 1228 |
| Mercaptan mixtures, liquid, n.o.s.                      | 131 | 3071 |
| Mercaptans, liquid, flammable, poisonous, n.o.s.        | 131 | 1228 |
| Mercaptans, liquid, flammable, toxic, n.o.s.            | 131 | 1228 |
| Mercaptans, liquid, n.o.s.                              | 131 | 3071 |
| Mercaptans, liquid, poisonous, flammable, n.o.s.        | 131 | 3071 |
| Mercaptans, liquid, toxic, flammable, n.o.s.            | 131 | 3071 |
| Mercuric arsenate                                       | 151 | 1623 |
| Mercuric bromide                                        | 154 | 1634 |
| Mercuric chloride                                       | 154 | 1624 |
| Mercuric cyanide                                        | 154 | 1636 |
| Mercuric nitrate                                        | 141 | 1625 |
| Mercuric oxycyanide                                     | 151 | 1642 |
| Mercuric potassium cyanide                              | 157 | 1626 |
| Mercuric sulfate                                        | 151 | 1645 |
| Mercuric sulphate                                       | 151 | 1645 |
| Mercurous bromide                                       | 154 | 1634 |
| Mercurous nitrate                                       | 141 | 1627 |
| Mercurous sulfate                                       | 151 | 1628 |
| Mercurous sulphate                                      | 151 | 1628 |
| Mercury                                                 | 172 | 2809 |
| Mercury, metallic                                       | 172 | 2809 |
| Mercury acetate                                         | 151 | 1629 |
| Mercury ammonium chloride                               | 151 | 1630 |
| Mercury based pesticide, liquid, flammable, poisonous   | 131 | 2778 |
| Mercury based pesticide, liquid, flammable, toxic       | 131 | 2778 |
| Mercury based pesticide, liquid, poisonous              | 151 | 3012 |
| Mercury based pesticide, liquid, poisonous, flammable   | 131 | 3011 |
| Mercury based pesticide, liquid, toxic                  | 151 | 3012 |
| Mercury based pesticide, liquid, toxic, flammable       | 131 | 3011 |
| Mercury based pesticide, solid, poisonous               | 151 | 2777 |
| Mercury based pesticide, solid, toxic                   | 151 | 2777 |
| Mercury benzoate                                        | 154 | 1631 |
| Mercury bisulfate                                       | 151 | 1633 |
| Mercury bisulphate                                      | 151 | 1633 |
| Mercury bromides                                        | 154 | 1634 |
| Mercury compound, liquid, n.o.s.                        | 151 | 2024 |
| Mercury compound, solid, n.o.s.                         | 151 | 2025 |
| Mercury cyanide                                         | 154 | 1636 |
| Mercury gluconate                                       | 151 | 1637 |
| Mercury iodide                                          | 151 | 1638 |
| Mercury metal                                           | 172 | 2809 |
| Mercury nucleate                                        | 151 | 1639 |
| Mercury oleate                                          | 151 | 1640 |

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| Mercury oxide                                            | 151  | 1641 |
| Mercury oxycyanide, desensitized                         | 151  | 1642 |
| Mercury potassium iodide                                 | 151  | 1643 |
| Mercury salicylate                                       | 151  | 1644 |
| Mercury sulfate                                          | 151  | 1645 |
| Mercury sulphate                                         | 151  | 1645 |
| Mercury thiocyanate                                      | 151  | 1646 |
| Mesityl oxide                                            | 129  | 1229 |
| Metal alkyl, solution, n.o.s.                            | 135  | 9195 |
| Metal alkyl halides, n.o.s.                              | 138  | 3049 |
| Metal alkyl hydrides, n.o.s.                             | 138  | 3050 |
| Metal alkyls, n.o.s.                                     | 135  | 2003 |
| Metal aryl halides, n.o.s.                               | 138  | 3049 |
| Metal aryl hydrides, n.o.s.                              | 138  | 3050 |
| Metal aryls, n.o.s.                                      | 135  | 2003 |
| Metal carbonyls, n.o.s.                                  | 151  | 3281 |
| Metal catalyst, dry                                      | 135  | 2881 |
| Metal catalyst, wetted                                   | 170  | 1378 |
| Metaldehyde                                              | 133  | 1332 |
| Metal hydrides, flammable, n.o.s.                        | 170  | 3182 |
| Metal hydrides, water reactive, n.o.s.                   | 138  | 1409 |
| Metallic substance, water-reactive, n.o.s.               | 138  | 3208 |
| Metallic substance, water-reactive, self-heating, n.o.s. | 138  | 3209 |
| Metal powder, flammable, n.o.s.                          | 170  | 3089 |
| Metal powder, self-heating, n.o.s.                       | 135  | 3189 |
| Metal salts of organic compounds, flammable, n.o.s.      | 133  | 3181 |
| Methacrylaldehyde                                        | 131P | 2396 |
| Methacrylaldehyde, inhibited                             | 131P | 2396 |
| Methacrylic acid, inhibited                              | 153P | 2531 |
| Methacrylonitrile, inhibited                             | 131P | 3079 |
| Methallyl alcohol                                        | 129  | 2614 |
| Methane                                                  | 115  | 1971 |
| Methane, compressed                                      | 115  | 1971 |
| Methane, refrigerated liquid (cryogenic liquid)          | 115  | 1972 |
| Methane and Hydrogen mixture, compressed                 | 115  | 2034 |
| Methanesulfonyl chloride                                 | 156  | 3246 |
| Methanesulphonyl chloride                                | 156  | 3246 |
| Methanol                                                 | 131  | 1230 |
| Methoxymethyl isocyanate                                 | 155  | 2605 |
| 4-Methoxy-4-methylpentan-2-one                           | 127  | 2293 |
| 1-Methoxy-2-propanol                                     | 129  | 3092 |
| Methyl acetate                                           | 129  | 1231 |
| Methyl acetone                                           | 127  | 1232 |
| Methyl acetylene and Propadiene mixture, stabilized      | 116P | 1060 |
| Methyl acrylate, inhibited                               | 129P | 1919 |
| Methylal                                                 | 127  | 1234 |
| Methyl alcohol                                           | 131  | 1230 |
| Methylallyl chloride                                     | 129P | 2554 |
| Methylamine, anhydrous                                   | 118  | 1061 |
| Methylamine, aqueous solution                            | 132  | 1235 |
| Methylamyl acetate                                       | 129  | 1233 |
| Methylamyl alcohol                                       | 129  | 2053 |
| Methyl amyl ketone                                       | 127  | 1110 |
| N-Methylaniline                                          | 153  | 2294 |
| Methyl benzoate                                          | 152  | 2938 |
| alpha-Methylbenzyl alcohol                               | 153  | 2937 |

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| Methylbenzyl alcohol (alpha)                                         | 153  | 2937 |
| Methyl bromide                                                       | 123  | 1062 |
| Methyl bromide and Chloropicrin mixtures                             | 123  | 1581 |
| Methyl bromide and Ethylene dibromide mixture, liquid                | 151  | 1647 |
| Methyl bromide and more than 2% Chloropicrin mixture, liquid         | 123  | 1581 |
| Methyl bromide and nonflammable, nonliquefied compressed gas mixture | 123  | 1955 |
| Methyl bromoacetate                                                  | 155  | 2643 |
| 3-Methylbutan-2-one                                                  | 127  | 2397 |
| 2-Methyl-1-butene                                                    | 127  | 2459 |
| 2-Methyl-2-butene                                                    | 127  | 2460 |
| 3-Methyl-1-butene                                                    | 127  | 2561 |
| N-Methylbutylamine                                                   | 132  | 2945 |
| Methyl tert-butyl ether                                              | 127  | 2398 |
| Methyl butyrate                                                      | 129  | 1237 |
| Methyl chloride                                                      | 115  | 1063 |
| Methyl chloride and Chloropicrin mixtures                            | 119  | 1582 |
| Methyl chloride and Methylene chloride mixture                       | 115  | 1912 |
| Methyl chloroacetate                                                 | 155  | 2295 |
| Methyl chloroformate                                                 | 155  | 1238 |
| Methyl chloromethyl ether                                            | 131  | 1239 |
| Methyl 2-chloropropionate                                            | 132  | 2933 |
| Methylchlorosilane                                                   | 119  | 2534 |
| Methyl cyanide                                                       | 131  | 1648 |
| Methylcyclohexane                                                    | 128  | 2296 |
| Methylcyclohexanols                                                  | 129  | 2617 |
| Methylcyclohexanone                                                  | 127  | 2297 |
| Methylcyclopentane                                                   | 128  | 2298 |
| Methyl dichloroacetate                                               | 155  | 2299 |
| Methyldichloroarsine                                                 | 152  | 1556 |
| Methyldichlorosilane                                                 | 139  | 1242 |
| Methylene chloride                                                   | 160  | 1593 |
| Methylene chloride and Methyl chloride mixture                       | 115  | 1912 |
| Methyl ethyl ether                                                   | 115  | 1039 |
| Methyl ethyl ketone                                                  | 127  | 1193 |
| Methyl ethyl ketone peroxide                                         | 147  | 2550 |
| 2-Methyl-5-ethylpyridine                                             | 153  | 2300 |
| Methyl fluoride                                                      | 115  | 2454 |
| Methyl formate                                                       | 129  | 1243 |
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| Refrigerant gas R-12B1                                                                           | 126     | 1974 |
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| Sulphur dioxide                                                                    | 125 | 1079 |
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| Sulphuric acid and Hydrofluoric acid mixtures                                      | 157 | 1786 |
| Sulphurous acid                                                                    | 154 | 1833 |
| Sulphur tetrafluoride                                                              | 125 | 2418 |
| Sulphur trioxide                                                                   | 137 | 1829 |
| Sulphur trioxide, inhibited                                                        | 137 | 1829 |
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| Tetraethyl pyrophosphate, liquid                                                                                       | 152  | 2783 |
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| Tetraethyl pyrophosphate and compressed gas mixtures (LC50 more than 200 ppm but not more than 5000 ppm)               | 123  | 1705 |
| Tetraethyl pyrophosphate and compressed gas mixtures (LC50 not more than 200 ppm)                                      | 123  | 1705 |
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| Thorium nitrate, solid                                                      | 162 | 2976 |
| Tinctures, medicinal                                                        | 127 | 1293 |
| Tin tetrachloride                                                           | 137 | 1827 |
| Tin tetrachloride, pentahydrate                                             | 154 | 2440 |
| Titanium disulfide                                                          | 135 | 3174 |
| Titanium disulphide                                                         | 135 | 3174 |
| Titanium hydride                                                            | 170 | 1871 |
| Titanium powder, dry                                                        | 135 | 2546 |
| Titanium powder, wetted with not less than 25% water                        | 170 | 1352 |
| Titanium sponge granules                                                    | 170 | 2878 |
| Titanium sponge powders                                                     | 170 | 2878 |
| Titanium sulfate, solution                                                  | 157 | 1760 |
| Titanium sulphate, solution                                                 | 157 | 1760 |
| Titanium tetrachloride                                                      | 137 | 1838 |
| Titanium tetrachloride and Vanadium oxytrichloride, mixture                 | 137 | 2443 |
| Titanium trichloride, pyrophoric                                            | 135 | 2441 |
| Titanium trichloride mixture                                                | 157 | 2869 |
| Titanium trichloride mixture, pyrophoric                                    | 135 | 2441 |
| TNT, wetted with not less than 30% water                                    | 113 | 1356 |
| Toe puffs, nitrocellulose base                                              | 133 | 1353 |
| Toluene                                                                     | 130 | 1294 |
| 2,4-Toluenediamine                                                          | 151 | 1709 |
| Toluenediamine                                                              | 151 | 1709 |
| Toluene diisocyanate                                                        | 156 | 2078 |
| Toluene sulfonic acid, liquid, with more than 5% free Sulfuric acid         | 153 | 2584 |
| Toluene sulfonic acid, liquid, with not more than 5% free Sulfuric acid     | 153 | 2586 |
| Toluene sulfonic acid, solid, with more than 5% free Sulfuric acid          | 153 | 2583 |
| Toluene sulfonic acid, solid, with not more than 5% free Sulfuric acid      | 153 | 2585 |
| Toluene sulphononic acid, liquid, with more than 5% free Sulphuric acid     | 153 | 2584 |
| Toluene sulphononic acid, liquid, with not more than 5% free Sulphuric acid | 153 | 2586 |
| Toluene sulphononic acid, solid, with more than 5% free Sulphuric acid      | 153 | 2583 |
| Toluene sulphononic acid, solid, with not more than 5% free Sulphuric acid  | 153 | 2585 |
| Toluidines                                                                  | 153 | 1708 |
| Toluidines, liquid                                                          | 153 | 1708 |
| Toluidines, solid                                                           | 153 | 1708 |
| 2,4-Toluylenediamine                                                        | 151 | 1709 |
| Toxaphene                                                                   | 151 | 2761 |

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| Toxic liquid, corrosive, inorganic, n.o.s.                                                         | 154 | 3289 |
| Toxic liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)                              | 154 | 3289 |
| Toxic liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone B)                              | 154 | 3289 |
| Toxic liquid, corrosive, organic, n.o.s.                                                           | 154 | 2927 |
| Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone A)                                | 154 | 2927 |
| Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone B)                                | 154 | 2927 |
| Toxic liquid, flammable, n.o.s.                                                                    | 131 | 2929 |
| Toxic liquid, flammable, organic, n.o.s.                                                           | 131 | 2929 |
| Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)                                | 131 | 2929 |
| Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)                                | 131 | 2929 |
| Toxic liquid, inorganic, n.o.s.                                                                    | 151 | 3287 |
| Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone A)                                         | 151 | 3287 |
| Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)                                         | 151 | 3287 |
| Toxic liquid, n.o.s. (Inhalation Hazard Zone A)                                                    | 153 | 2810 |
| Toxic liquid, n.o.s. (Inhalation Hazard Zone B)                                                    | 153 | 2810 |
| Toxic liquid, n.o.s.                                                                               | 153 | 2810 |
| Toxic liquid, organic, n.o.s.                                                                      | 153 | 2810 |
| Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone A)                                           | 153 | 2810 |
| Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone B)                                           | 153 | 2810 |
| Toxic liquid, oxidizing, n.o.s.                                                                    | 142 | 3122 |
| Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)                                         | 142 | 3122 |
| Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)                                         | 142 | 3122 |
| Toxic liquid, water-reactive, n.o.s.                                                               | 139 | 3123 |
| Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)                                    | 139 | 3123 |
| Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)                                    | 139 | 3123 |
| Toxic liquid, which in contact with water emits flammable gases, n.o.s.                            | 139 | 3123 |
| Toxic liquids, flammable, n.o.s. (Inhalation Hazard Zone A)                                        | 131 | 2929 |
| Toxic liquids, which in contact with water emit flammable gases, n.o.s. (Inhalation Hazard Zone A) | 139 | 3123 |
| Toxic liquids, flammable, n.o.s. (Inhalation Hazard Zone B)                                        | 131 | 2929 |
| Toxic liquids, which in contact with water emit flammable gases, n.o.s. (Inhalation Hazard Zone B) | 139 | 3123 |
| Toxic solid, corrosive, inorganic, n.o.s.                                                          | 154 | 3290 |
| Toxic solid, corrosive, organic, n.o.s.                                                            | 154 | 2928 |
| Toxic solid, flammable, n.o.s.                                                                     | 134 | 2930 |
| Toxic solid, flammable, organic, n.o.s.                                                            | 134 | 2930 |
| Toxic solid, inorganic, n.o.s.                                                                     | 151 | 3288 |
| Toxic solid, n.o.s.                                                                                | 154 | 2811 |
| Toxic solid, organic, n.o.s.                                                                       | 154 | 2811 |
| Toxic solid, oxidizing, n.o.s.                                                                     | 141 | 3086 |
| Toxic solid, self-heating, n.o.s.                                                                  | 136 | 3124 |
| Toxic solid, water-reactive, n.o.s.                                                                | 139 | 3125 |
| Toxic solid, which in contact with water emits flammable gases, n.o.s.                             | 139 | 3125 |
| Toxins, extracted from living sources, n.o.s.                                                      | 153 | 3172 |
| Triallylamine                                                                                      | 132 | 2610 |
| Triallyl borate                                                                                    | 156 | 2609 |
| Triazine pesticide, liquid, flammable, poisonous                                                   | 131 | 2764 |
| Triazine pesticide, liquid, flammable, toxic                                                       | 131 | 2764 |
| Triazine pesticide, liquid, poisonous                                                              | 151 | 2998 |
| Triazine pesticide, liquid, poisonous, flammable                                                   | 131 | 2997 |
| Triazine pesticide, liquid, toxic                                                                  | 151 | 2998 |
| Triazine pesticide, liquid, toxic, flammable                                                       | 131 | 2997 |
| Triazine pesticide, solid, poisonous                                                               | 151 | 2763 |
| Triazine pesticide, solid, toxic                                                                   | 151 | 2763 |
| Tri-(1-aziridinyl)phosphine oxide, solution                                                        | 152 | 2501 |
| Tributylamine                                                                                      | 153 | 2542 |

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| Tributylphosphane                                                                                            | 135  | 3254 |
| Tributylphosphine                                                                                            | 135  | 3254 |
| Trichlorfon                                                                                                  | 152  | 2783 |
| Trichloroacetic acid                                                                                         | 153  | 1839 |
| Trichloroacetic acid, solution                                                                               | 153  | 2564 |
| Trichloroacetyl chloride                                                                                     | 156  | 2442 |
| Trichlorobenzenes, liquid                                                                                    | 153  | 2321 |
| Trichlorobutene                                                                                              | 152  | 2322 |
| 1,1,1-Trichloroethane                                                                                        | 160  | 2831 |
| Trichloroethylene                                                                                            | 160  | 1710 |
| Trichloroisocyanuric acid, dry                                                                               | 141  | 2468 |
| Trichlorophenol                                                                                              | 153  | 2020 |
| 2,4,5-Trichlorophenoxyacetic acid                                                                            | 152  | 2765 |
| 2,4,5-Trichlorophenoxypropionic acid                                                                         | 152  | 2765 |
| Trichlorosilane                                                                                              | 139  | 1295 |
| Trichloro-s-triazinetriene, dry                                                                              | 141  | 2468 |
| (mono)-(Trichloro)-tetra-(monopotassium dichloro)-penta-s-triazinetriene, dry                                | 141  | 2468 |
| Tricresyl phosphate                                                                                          | 151  | 2574 |
| Triethanolamine dodecylbenzenesulfonate                                                                      | 171  | 9151 |
| Triethanolamine dodecylbenzenesulphonate                                                                     | 171  | 9151 |
| Triethylamine                                                                                                | 132  | 1296 |
| Triethylenetetramine                                                                                         | 153  | 2259 |
| Triethyl phosphite                                                                                           | 129  | 2323 |
| Trifluoroacetic acid                                                                                         | 154  | 2699 |
| Trifluoroacetyl chloride                                                                                     | 125  | 3057 |
| Trifluorochloroethylene                                                                                      | 119P | 1082 |
| Trifluorochloroethylene, inhibited                                                                           | 119P | 1082 |
| Trifluoroethane, compressed                                                                                  | 115  | 2035 |
| 1,1,1-Trifluoroethane                                                                                        | 115  | 2035 |
| Trifluoromethane                                                                                             | 126  | 1984 |
| Trifluoromethane, refrigerated liquid                                                                        | 120  | 3136 |
| Trifluoromethane and Chlorotrifluoromethane azeotropic mixture with approximately 60% Chlorotrifluoromethane | 126  | 2599 |
| 2-Trifluoromethylaniline                                                                                     | 153  | 2942 |
| 3-Trifluoromethylaniline                                                                                     | 153  | 2948 |
| Triisobutylene                                                                                               | 128  | 2324 |
| Triisocyanatoisocyanurate of Isophoronediiisocyanate, solution (70%)                                         | 127  | 2906 |
| Triisopropyl borate                                                                                          | 129  | 2616 |
| Trimethoxysilane                                                                                             | 132  | 9269 |
| Trimethylacetyl chloride                                                                                     | 132  | 2438 |
| Trimethylamine, anhydrous                                                                                    | 118  | 1083 |
| Trimethylamine, aqueous solution                                                                             | 132  | 1297 |
| 1,3,5-Trimethylbenzene                                                                                       | 129  | 2325 |
| Trimethyl borate                                                                                             | 129  | 2416 |
| Trimethylchlorosilane                                                                                        | 155  | 1298 |
| Trimethylcyclohexylamine                                                                                     | 153  | 2326 |
| Trimethylhexamethylenediamines                                                                               | 153  | 2327 |
| Trimethylhexamethylene diisocyanate                                                                          | 156  | 2328 |
| Trimethyl phosphite                                                                                          | 129  | 2329 |
| Trinitroaniline, wetted                                                                                      | 113  | 9073 |
| Trinitrobenzene, wetted with not less than 30% water                                                         | 113  | 1354 |
| Trinitrobenzoic acid, wetted with not less than 30% water                                                    | 113  | 1355 |
| Trinitrophenol, wetted with not less than 30% water                                                          | 113  | 1344 |
| Trinitrotoluene, wetted with not less than 30% water                                                         | 113  | 1356 |
| Tripropylamine                                                                                               | 132  | 2260 |

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| Tripropylene                                                      | 128  | 2057 |
| Tris-(1-aziridinyl)phosphine oxide, solution                      | 152  | 2501 |
| Tungsten hexafluoride                                             | 125  | 2196 |
| Turpentine                                                        | 128  | 1299 |
| Turpentine substitute                                             | 128  | 1300 |
| Undecane                                                          | 128  | 2330 |
| Uranium hexafluoride, fissile containing more than 1% Uranium-235 | 166  | 2977 |
| Uranium hexafluoride, fissile excepted                            | 166  | 2978 |
| Uranium hexafluoride, low specific activity                       | 166  | 2978 |
| Uranium hexafluoride, non-fissile                                 | 166  | 2978 |
| Uranium metal, pyrophoric                                         | 162  | 2979 |
| Uranyl acetate                                                    | 162  | 9180 |
| Uranyl nitrate, hexahydrate, solution                             | 162  | 2980 |
| Uranyl nitrate, solid                                             | 162  | 2981 |
| Urea hydrogen peroxide                                            | 140  | 1511 |
| Urea nitrate, wetted with not less than 20% water                 | 113  | 1357 |
| Urea peroxide                                                     | 140  | 1511 |
| Valeraldehyde                                                     | 129  | 2058 |
| Valeryl chloride                                                  | 132  | 2502 |
| Vanadium compound, n.o.s.                                         | 151  | 3285 |
| Vanadium oxytrichloride                                           | 137  | 2443 |
| Vanadium oxytrichloride and Titanium tetrachloride, mixture       | 137  | 2443 |
| Vanadium pentoxide                                                | 151  | 2862 |
| Vanadium tetrachloride                                            | 137  | 2444 |
| Vanadium trichloride                                              | 157  | 2475 |
| Vanadium trioxide                                                 | 154  | 2860 |
| Vanadyl sulfate                                                   | 151  | 2931 |
| Vanadyl sulphate                                                  | 151  | 2931 |
| Vinyl acetate                                                     | 129P | 1301 |
| Vinyl acetate, inhibited                                          | 129P | 1301 |
| Vinyl bromide, inhibited                                          | 116P | 1085 |
| Vinyl butyrate, inhibited                                         | 129P | 2838 |
| Vinyl chloride                                                    | 116P | 1086 |
| Vinyl chloride, inhibited                                         | 116P | 1086 |
| Vinyl chloride, stabilized                                        | 116P | 1086 |
| Vinyl chloroacetate                                               | 155  | 2589 |
| Vinyl ethyl ether                                                 | 127P | 1302 |
| Vinyl ethyl ether, inhibited                                      | 127P | 1302 |
| Vinyl fluoride, inhibited                                         | 116P | 1860 |
| Vinylidene chloride, inhibited                                    | 129P | 1303 |
| Vinyl isobutyl ether                                              | 127P | 1304 |
| Vinyl isobutyl ether, inhibited                                   | 127P | 1304 |
| Vinyl methyl ether                                                | 116P | 1087 |
| Vinyl methyl ether, inhibited                                     | 116P | 1087 |
| Vinylpyridines, inhibited                                         | 131P | 3073 |
| Vinytoluene, inhibited                                            | 130P | 2618 |
| Vinyltrichlorosilane                                              | 155  | 1305 |
| Vinyltrichlorosilane, inhibited                                   | 155  | 1305 |
| Waste Type 1                                                      | 153  | 9301 |
| Waste Type 2                                                      | 153  | 9302 |
| Waste Type 3                                                      | 131  | 9303 |
| Waste Type 4                                                      | 153  | 9304 |
| Waste Type 5                                                      | 131  | 9305 |
| Waste Type 6                                                      | 154  | 9306 |
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| Waste Type 9  | 153 | 9309 |
| Waste Type 10 | 153 | 9310 |
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| Waste Type 12 | 153 | 9312 |
| Waste Type 13 | 153 | 9313 |
| Waste Type 14 | 153 | 9314 |
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| Waste Type 17 | 154 | 9317 |
| Waste Type 18 | 154 | 9318 |
| Waste Type 19 | 154 | 9319 |
| Waste Type 20 | 154 | 9320 |
| Waste Type 21 | 154 | 9321 |
| Waste Type 22 | 154 | 9322 |
| Waste Type 23 | 154 | 9323 |
| Waste Type 24 | 152 | 9324 |
| Waste Type 25 | 127 | 9325 |
| Waste Type 26 | 152 | 9326 |
| Waste Type 27 | 131 | 9327 |
| Waste Type 28 | 131 | 9328 |
| Waste Type 29 | 153 | 9329 |
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| Waste Type 31 | 129 | 9331 |
| Waste Type 32 | 129 | 9332 |
| Waste Type 33 | 129 | 9333 |
| Waste Type 34 | 129 | 9334 |
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| Waste Type 37 | 153 | 9337 |
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| Waste Type 40 | 153 | 9340 |
| Waste Type 41 | 132 | 9341 |
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| Waste Type 47 | 132 | 9347 |
| Waste Type 48 | 153 | 9348 |
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| Waste Type 58 | 153 | 9358 |
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| Waste Type 65                                        | 151 | 9365 |
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| Waste Type 68                                        | 154 | 9368 |
| Waste Type 69                                        | 151 | 9369 |
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| Waste Type 71                                        | 133 | 9371 |
| Waste Type 72                                        | 151 | 9372 |
| Waste Type 73                                        | 151 | 9373 |
| Waste Type 74                                        | 127 | 9374 |
| Waste Type 75                                        | 153 | 9375 |
| Waste Type 76                                        | 153 | 9376 |
| Waste Type 77                                        | 131 | 9377 |
| Waste Type 78                                        | 153 | 9378 |
| Waste Type 79                                        | 153 | 9379 |
| Waste Type 80                                        | 151 | 9380 |
| Waste Type 81                                        | 154 | 9381 |
| Waste Type 82                                        | 154 | 9382 |
| Waste Type 83                                        | 154 | 9383 |
| Waste Type 84                                        | 151 | 9384 |
| Waste Type 85                                        | 154 | 9385 |
| Waste Type 86                                        | 154 | 9386 |
| Waste Type 87                                        | 154 | 9387 |
| Waste Type 88                                        | 151 | 9388 |
| Waste Type 89                                        | 154 | 9389 |
| Waste Type 90                                        | 154 | 9390 |
| Waste Type 91                                        | 153 | 9391 |
| Waste Type 92                                        | 154 | 9392 |
| Waste Type 93                                        | 153 | 9393 |
| Waste Type 94                                        | 151 | 9394 |
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| Waste Type 96                                        | 151 | 9396 |
| Waste Type 97                                        | 153 | 9397 |
| Waste Type 99                                        | 137 | 9399 |
| Waste Type 100                                       | 137 | 9400 |
| Water pump system                                    | 126 | 1956 |
| Water-reactive liquid, corrosive, n.o.s.             | 138 | 3129 |
| Water-reactive liquid, n.o.s.                        | 138 | 3148 |
| Water-reactive liquid, poisonous, n.o.s.             | 139 | 3130 |
| Water-reactive liquid, toxic, n.o.s.                 | 139 | 3130 |
| Water-reactive solid, corrosive, n.o.s.              | 138 | 3131 |
| Water-reactive solid, flammable, n.o.s.              | 138 | 3132 |
| Water reactive solid, n.o.s.                         | 138 | 2813 |
| Water reactive solid, oxidizing, n.o.s.              | 138 | 3133 |
| Water-reactive solid, poisonous, n.o.s.              | 139 | 3134 |
| Water reactive solid, self-heating, n.o.s.           | 138 | 3135 |
| Water-reactive solid, toxic, n.o.s.                  | 139 | 3134 |
| Water-reactive substances, liquid, corrosive, n.o.s. | 138 | 3129 |
| Water-reactive substances, liquid, n.o.s.            | 138 | 3148 |
| Water-reactive substances, liquid, poisonous, n.o.s. | 139 | 3130 |
| Water-reactive substances, liquid, toxic, n.o.s.     | 139 | 3130 |
| Water-reactive substances, solid, corrosive, n.o.s.  | 138 | 3131 |
| Water-reactive substances, solid, flammable, n.o.s.  | 138 | 3132 |
| Water-reactive substances, solid, n.o.s.             | 138 | 2813 |
| Water-reactive substances, solid, oxidizing, n.o.s.  | 138 | 3133 |
| Water-reactive substances, solid, poisonous, n.o.s.  | 139 | 3134 |

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| Water-reactive substances, solid, self-heating, n.o.s. | 138 | 3135 |
| Water-reactive substances, solid, toxic, n.o.s.        | 139 | 3134 |
| Wheelchair, electric, with batteries                   | 154 | 3171 |
| White asbestos                                         | 171 | 2590 |
| White phosphorus, dry                                  | 136 | 1381 |
| White phosphorus, in solution                          | 136 | 1381 |
| White phosphorus, molten                               | 136 | 2447 |
| White phosphorus, under water                          | 136 | 1381 |
| Wood preservatives, liquid                             | 129 | 1306 |
| Xenon                                                  | 121 | 2036 |
| Xenon, compressed                                      | 121 | 2036 |
| Xenon, refrigerated liquid (cryogenic liquid)          | 120 | 2591 |
| Xylenes                                                | 130 | 1307 |
| Xylenols                                               | 153 | 2261 |
| Xylidines                                              | 153 | 1711 |
| Xylyl bromide                                          | 152 | 1701 |
| Yellow phosphorus, dry                                 | 136 | 1381 |
| Yellow phosphorus, in solution                         | 136 | 1381 |
| Yellow phosphorus, molten                              | 136 | 2447 |
| Yellow phosphorus, under water                         | 136 | 1381 |
| Zinc acetate                                           | 171 | 9153 |
| Zinc ammonium chloride                                 | 171 | 9154 |
| Zinc ammonium nitrite                                  | 140 | 1512 |
| Zinc arsenate                                          | 151 | 1712 |
| Zinc arsenate and Zinc arsenite mixture                | 151 | 1712 |
| Zinc arsenite                                          | 151 | 1712 |
| Zinc arsenite and Zinc arsenate mixture                | 151 | 1712 |
| Zinc ashes                                             | 138 | 1435 |
| Zinc bisulfite solution                                | 154 | 2693 |
| Zinc bisulphite solution                               | 154 | 2693 |
| Zinc borate                                            | 171 | 9155 |
| Zinc bromate                                           | 140 | 2469 |
| Zinc bromide                                           | 171 | 9156 |
| Zinc carbonate                                         | 171 | 9157 |
| Zinc chlorate                                          | 140 | 1513 |
| Zinc chloride, anhydrous                               | 154 | 2331 |
| Zinc chloride, solution                                | 154 | 1840 |
| Zinc cyanide                                           | 151 | 1713 |
| Zinc dithionite                                        | 171 | 1931 |
| Zinc dust                                              | 138 | 1436 |
| Zinc fluoride                                          | 151 | 9158 |
| Zinc fluorosilicate                                    | 151 | 2855 |
| Zinc formate                                           | 171 | 9159 |
| Zinc hydrosulfite                                      | 171 | 1931 |
| Zinc hydrosulphite                                     | 171 | 1931 |
| Zinc nitrate                                           | 140 | 1514 |
| Zinc permanganate                                      | 140 | 1515 |
| Zinc peroxide                                          | 143 | 1516 |
| Zinc phenolsulfonate                                   | 171 | 9160 |
| Zinc phenolsulphonate                                  | 171 | 9160 |
| Zinc phosphide                                         | 139 | 1714 |
| Zinc powder                                            | 138 | 1436 |
| Zinc resinate                                          | 133 | 2714 |
| Zinc selenate                                          | 151 | 2630 |
| Zinc selenite                                          | 151 | 2630 |
| Zinc sulfate                                           | 171 | 9161 |

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| Zinc sulphate                                                | 171 | 9161 |
| Zirconium, dry, coiled wire, finished metal sheets or strips | 170 | 2858 |
| Zirconium, dry, finished sheets, strips or coiled wire       | 135 | 2009 |
| Zirconium hydride                                            | 138 | 1437 |
| Zirconium metal, liquid, suspension                          | 170 | 1308 |
| Zirconium metal, powder, wet                                 | 170 | 1358 |
| Zirconium nitrate                                            | 140 | 2728 |
| Zirconium picramate, wetted with not less than 20% water     | 113 | 1517 |
| Zirconium potassium fluoride                                 | 171 | 9162 |
| Zirconium powder, dry                                        | 135 | 2008 |
| Zirconium powder, wetted with not less than 25% water        | 170 | 1358 |
| Zirconium scrap                                              | 135 | 1932 |
| Zirconium sulfate                                            | 171 | 9163 |
| Zirconium sulphate                                           | 171 | 9163 |
| Zirconium suspended in a flammable liquid                    | 170 | 1308 |
| Zirconium suspended in a liquid (flammable)                  | 170 | 1308 |
| Zirconium tetrachloride                                      | 137 | 2503 |

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|                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stop all traffic and clear the area for at least 500 m in all directions and let burn.                                                                                                                                            |
| Do not move cargo or vehicle if cargo has been exposed to heat.                                                                                                                                                                   |
| <b>TIRE or VEHICLE Fires:</b> Use plenty of water - <b>FLOOD</b> it! If water is not available, use CO2, dry chemical or dirt.                                                                                                    |
| If possible, and <b>WITHOUT RISK</b> , use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.                                                                           |
| Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready.                                                                                                                                   |
| <b>SPILL OR LEAK</b>                                                                                                                                                                                                              |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                                                    |
| All equipment used when handling the product must be grounded.                                                                                                                                                                    |
| Do not touch or walk through spilled material.                                                                                                                                                                                    |
| <b>DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 m OF ELECTRIC DETONATORS.</b>                                                                                                                                                     |
| <b>DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.</b>                                                                                                                                                   |
| <b>FIRST AID</b>                                                                                                                                                                                                                  |
| Move victim to fresh air.                                                                                                                                                                                                         |
| Call emergency medical care                                                                                                                                                                                                       |
| Apply artificial respiration if victim is not breathing.                                                                                                                                                                          |
| Administer oxygen if breathing is difficult.                                                                                                                                                                                      |
| Remove contaminated clothing and shoes.                                                                                                                                                                                           |
| In case of contact with material, flush skin or eyes with running water for at least 15 minutes.                                                                                                                                  |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                                                        |
| <b>SUPPLEMENTAL INFORMATION</b>                                                                                                                                                                                                   |
| Packages bearing the 1.4S label contain explosive substances or articles that are designed or packaged in such a manner that when involved in a fire, may burn vigorously with localized detonations and projection of fragments. |
| Effects are usually confined to immediate vicinity of packages.                                                                                                                                                                   |
| If fire threatens cargo area containing packages bearing the 1.4S label, consider initial isolation of at least 15 m (50 feet) in all directions. Fight fire with normal precautions from a reasonable distance.                  |
| <b>115 GASES - FLAMMABLE - INCLUDING CRYOGENICS</b>                                                                                                                                                                               |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                                                          |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                                                          |
| <b>EXTREMELY FLAMMABLE:</b> Will be easily ignited by heat, sparks or flames. Will form explosive mixtures with air.                                                                                                              |
| Vapo(u)rs from liquefied gas are initially heavier than air.                                                                                                                                                                      |
| Vapo(u)rs may travel to source of ignition and flash back.                                                                                                                                                                        |
| Containers may explode when heated.                                                                                                                                                                                               |
| Ruptured cylinders may rocket.                                                                                                                                                                                                    |
| <b>HEALTH</b>                                                                                                                                                                                                                     |
| Vapo(u)rs may cause dizziness or asphyxiation without warning.                                                                                                                                                                    |
| Some may be irritating in high concentrations.                                                                                                                                                                                    |
| Contact with liquefied gas may cause burns, severe injury and/or frostbite.                                                                                                                                                       |
| Fire may produce irritating and/or toxic gases.                                                                                                                                                                                   |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                                                              |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.                                     |
| Spill or leak area should be isolated immediately for at least 50-100 m in all directions.                                                                                                                                        |
| Keep unauthorized personnel away.                                                                                                                                                                                                 |
| Stay upwind.                                                                                                                                                                                                                      |

Guide  
#  
115

**PROTECTIVE CLOTHING**

Wear positive pressure self contained breathing apparatus (SCBA).

Structural firefighters' protective clothing will provide limited protection.

Always wear thermal protective clothing when handling cryogenic liquids.

**EVACUATION****Large Spill**

Consider initial downwind evacuation for at least 800 m.

**Fire**

If tank, rail car or tank truck is involved in a fire, **ISOLATE** for 800 m (½ mile) in all directions; **also**, consider initial evacuation for 800 m (½ mile) in all directions.

**EMERGENCY RESPONSE****FIRE**

**DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.**

**Small Fires:** Dry chemical or CO<sub>2</sub>.

**Large Fires:** Water spray or fog.

Move container from fire area if you can do it without risk.

**Fire involving Tanks**

Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

Cool containers with flooding quantities of water until well after fire is out.

Do not direct water at source of leak or safety devices; icing may occur.

When impossible, withdraw from hazard area and let burn.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

**ALWAYS** stay away from ends of tanks.

**SPILL OR LEAK**

**ELIMINATE** all ignition sources (no smoking, flares, sparks or flame in immediate area).

Do not touch or walk through spilled material.

Stop leak if you can do it without risk.

All equipment used when handling the material must be grounded.

If possible, turn leaking containers so that gas escapes rather than liquid.

Use water spray to reduce vapo(u)rs or divert vapo(u)r cloud drift.

Do not direct water at spill or source of leak.

Prevent spreading of vapours through sewers, ventilation systems and confined areas.

Isolate area until gas has dispersed.

**Caution:** When in contact with cryogenic liquids, most materials become brittle and are likely to break without warning.

**FIRST AID**

Move victim to fresh air.

Call emergency medical care.

Apply artificial respiration if victim is not breathing.

Administer oxygen if breathing is difficult.

Remove contaminated clothing and shoes.

Clothing frozen to the skin should be thawed before being removed.

In case of contact with liquefied gas, thaw frosted parts with lukewarm water.

Keep victim warm and quiet.

Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**116- GASES - FLAMMABLE - UNSTABLE**

**POTENTIAL HAZARDS****FIRE OR EXPLOSION**

**EXTREMELY FLAMMABLE.**

Vinyl Chloride

|                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Will be easily ignited by heat, sparks or flames.                                                                                                                                             |
| Will form explosive mixtures with air.                                                                                                                                                        |
| Some may ignite spontaneously in air.                                                                                                                                                         |
| Some may polymerize (P) explosively when heated or involved in a fire.                                                                                                                        |
| Vapo(u)rs from liquefied gas are initially heavier than air.                                                                                                                                  |
| Vapo(u)rs may travel to source of ignition and flash back.                                                                                                                                    |
| Containers may explode when heated.                                                                                                                                                           |
| Ruptured cylinders may rocket.                                                                                                                                                                |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Vapo(u)rs may cause dizziness or asphyxiation without warning.                                                                                                                                |
| Some may be toxic if inhaled at high concentrations.                                                                                                                                          |
| Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.                                                                                                            |
| Fire may produce irritating and/or toxic gases.                                                                                                                                               |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 50-100 m (150 to 300 feet) in all directions.                                                                                  |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self-contained breathing apparatus (SCBA).                                                                                                                             |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                                 |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| Consider initial downwind evacuation for at least 800 m (½ mile).                                                                                                                             |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.</b>                                                                                                                       |
| <b>Small Fires:</b> Dry chemical or CO2.                                                                                                                                                      |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                         |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| <b>Fire Involving Tanks</b>                                                                                                                                                                   |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Do not direct water at source of leak or safety devices; icing may occur.                                                                                                                     |
| When impossible, withdraw immediately from hazard area and let burn.                                                                                                                          |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| ALWAYS stay away from the ends of tanks.                                                                                                                                                      |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                |
| All equipment used when handling the material must be grounded.                                                                                                                               |
| Stop leak if you can do it without risk.                                                                                                                                                      |
| Do not touch or walk through spilled material.                                                                                                                                                |
| Use water spray to reduce vapo(u)rs or divert vapo(u)r cloud drift.                                                                                                                           |
| If possible, turn leaking containers so that gas escapes rather than liquid.                                                                                                                  |

|                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| Isolate area until gas has dispersed.                                                                                                                                                         |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care                                                                                                                                                                   |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove contaminated clothing and shoes.                                                                                                                                                       |
| In case of contact with liquefied gas, thaw frosted parts with lukewarm water.                                                                                                                |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>117- GASES - TOXIC - FLAMMABLE - EXTREME HAZARD</b>                                                                                                                                        |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Toxic; extremely hazardous.                                                                                                                                                                   |
| May be fatal if inhaled or absorbed through skin.                                                                                                                                             |
| Initial odor may be irritating or foul and may deaden your sense of smell.                                                                                                                    |
| Contact with liquefied gas may cause burns, severe injury and/or frostbite.                                                                                                                   |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Runoff from fire control may cause pollution.                                                                                                                                                 |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| These materials are flammable.                                                                                                                                                                |
| May form explosive mixtures with air.                                                                                                                                                         |
| May be ignited by heat, sparks or flames.                                                                                                                                                     |
| Vapor(s) from liquefied gas are initially heavier than air.                                                                                                                                   |
| Vapor(s) may travel to source of ignition and flash back.                                                                                                                                     |
| Runoff may create fire or explosion hazard.                                                                                                                                                   |
| Containers may explode when heated.                                                                                                                                                           |
| Ruptured cylinders may rocket.                                                                                                                                                                |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 50-100 m (150 to 300 feet) in all directions.                                                                                  |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                                 |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate closed spaces before entering.                                                                                                                                                      |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self-contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances.                                                                                                                           |
| <b>Fire</b>                                                                                                                                                                                   |

|                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; <b>also</b> , consider <b>initial evacuation</b> for 800 m (½ mile) in all directions. |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                          |
| <b>FIRE</b>                                                                                                                                                                                        |
| Use extinguishing agent suitable for type of surrounding fire.                                                                                                                                     |
| <b>Small Fires:</b> Dry chemical or CO2.                                                                                                                                                           |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                              |
| Move container from fire area if you can do it without risk.                                                                                                                                       |
| Damaged cylinders should be handled only by specialists.                                                                                                                                           |
| <b>Fire involving Tanks</b>                                                                                                                                                                        |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                                  |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                                    |
| When impossible, withdraw immediately from hazard area and let burn.                                                                                                                               |
| Do not direct water at source of leak or safety devices; icing may occur.                                                                                                                          |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                                 |
| <b>ALWAYS</b> stay away from the ends of tanks.                                                                                                                                                    |
| <b>SPILL OR LEAK</b>                                                                                                                                                                               |
| Keep combustibles (wood, paper, clothing, oil, etc.) away from spilled material.                                                                                                                   |
| Do not touch or walk through spilled material.                                                                                                                                                     |
| Stop leak if you can do it without risk.                                                                                                                                                           |
| If possible, turn leaking containing vessel so that gas escapes rather than liquid.                                                                                                                |
| Do not direct water at spill or source of leak.                                                                                                                                                    |
| Use water spray to reduce vapo(u)rs or divert vapo(u)r cloud drift.                                                                                                                                |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                                 |
| Allow substance to evaporate.                                                                                                                                                                      |
| Isolate area until gas has dispersed.                                                                                                                                                              |
| <b>Caution:</b> When in contact with cryogenic liquids, most materials become brittle and are likely to break without warning.                                                                     |
| <b>FIRST AID</b>                                                                                                                                                                                   |
| Move victim to fresh air.                                                                                                                                                                          |
| Call emergency medical care.                                                                                                                                                                       |
| Apply artificial respiration if victim is not breathing.                                                                                                                                           |
| Administer oxygen if breathing is difficult.                                                                                                                                                       |
| Remove contaminated clothing and shoes.                                                                                                                                                            |
| Clothing frozen to the skin should be thawed before being removed.                                                                                                                                 |
| In case of contact with liquefied gas, thaw frosted parts with lukewarm water.                                                                                                                     |
| Keep victim warm and quiet.                                                                                                                                                                        |
| Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                                   |
| <b>123- GASES - TOXIC</b>                                                                                                                                                                          |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                           |
| <b>HEALTH</b>                                                                                                                                                                                      |
| Toxic, may be fatal if inhaled or absorbed through skin.                                                                                                                                           |
| Vapo(u)rs may be irritating                                                                                                                                                                        |
| Contact with liquefied gas may cause burns, severe injury and/or frostbite.                                                                                                                        |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                        |
| Runoff from fire control may cause pollution.                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                           |
| Some may burn, but none ignite readily.                                                                                                                                                            |
| Vapo(u)rs from liquefied gas are initially heavier than air.                                                                                                                                       |

|                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Containers may explode when heated.                                                                                                                                                           |
| Ruptured cylinders may rocket.                                                                                                                                                                |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 50-100 m (150 to 300 feet) in all directions.                                                                                  |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                                 |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate closed spaces before entering.                                                                                                                                                      |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self-contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances.                                                                                                                           |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>Small Fires:</b> Dry chemical or CO2.                                                                                                                                                      |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                         |
| Do not get water inside container.                                                                                                                                                            |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| Damaged cylinders should be handled only by specialists.                                                                                                                                      |
| <b>Fire involving Tanks</b>                                                                                                                                                                   |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Do not direct water at source of leak or safety devices; icing may occur.                                                                                                                     |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| <b>ALWAYS</b> stay away from the ends of tanks.                                                                                                                                               |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| Do not touch or walk through spilled material.                                                                                                                                                |
| Stop leak if you can do it without risk.                                                                                                                                                      |
| If possible, turn leaking containers so that gas escapes rather than liquid.                                                                                                                  |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| Use water spray to reduce vapo(u)rs or divert vapo(u)r cloud drift.                                                                                                                           |
| Do not direct water at spill or source of leak.                                                                                                                                               |
| Do not get water inside container.                                                                                                                                                            |
| Isolate area until gas has dispersed.                                                                                                                                                         |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care                                                                                                                                                                   |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| <b>Do not use mouth-to-mouth method</b> if victim ingested or inhaled the substance;                                                                                                          |
| <b>use the Holger Nielsen method (back pressure-armlift)</b> or proper respiratory medical device.                                                                                            |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove contaminated clothing and shoes.                                                                                                                                                       |
| In case of contact with liquefied gas, thaw frosted parts with lukewarm water.                                                                                                                |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                  |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Effects of contact or inhalation may be delayed.                                                                                                                                              |
| Keep victim under observation.                                                                                                                                                                |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>124 COMPRESSED GAS- TOXIC-OXIDIZING-CORROSIVE</b>                                                                                                                                          |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Toxic, may be fatal if inhaled.                                                                                                                                                               |
| Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.                                                                                                            |
| Vapors from liquefied gas are initially heavier than air and spread along ground.                                                                                                             |
| Runoff from fire control may cause pollution.                                                                                                                                                 |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| Do not burn but will support combustion.                                                                                                                                                      |
| These are strong oxidizers and will react vigorously or explosively with many materials including fuels.                                                                                      |
| May ignite other combustible materials (wood, paper, oil, etc.).                                                                                                                              |
| Some will react violently with air, moist air and/or water.                                                                                                                                   |
| Containers may explode when heated.                                                                                                                                                           |
| Ruptured cylinders may rocket.                                                                                                                                                                |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 50-100 m in all directions.                                                                                                    |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                                 |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate closed spaces before entering.                                                                                                                                                      |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances.                                                                                                                           |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, ISOLATE for 1500 m (1 mile) in all directions; also, consider initial evacuation for 1500 m (1 mile) in all directions.                |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |

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|----------------------------------------------------------------------------------------------------------------------------|
| <b>FIRE</b>                                                                                                                |
| <b>Small Fires: Water only;</b> no dry chemical, CO2 or Halon.                                                             |
| Contain fire and let burn. If fire must be fought, water spray or fog is recommended.                                      |
| Do not get water inside containers.                                                                                        |
| Move container from fire area if you can do it without risk.                                                               |
| Damaged cylinders should be handled only by specialists.                                                                   |
| <b>Fire involving Tanks</b>                                                                                                |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                          |
| Cool containers with flooding quantities of water until well after fire is out.                                            |
| Do not direct water at source of leak or safety devices; icing may occur.                                                  |
| When impossible, withdraw from area and let fire burn.                                                                     |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                         |
| ALWAYS stay away from the ends of tanks.                                                                                   |
| <b>SPILL OR LEAK</b>                                                                                                       |
| Do not touch or walk through spilled material.                                                                             |
| Keep combustibles (wood, paper, clothing, oil, etc.) away from spilled material.                                           |
| Stop leak if you can do it without risk.                                                                                   |
| Use water spray to reduce vapors or divert vapor cloud drift.                                                              |
| Do not direct water at spill or source of leak.                                                                            |
| If possible, turn leaking containers so that gas escapes rather than liquid.                                               |
| Prevent entry into waterways, sewers, basements or confined areas.                                                         |
| Isolate area until gas has dispersed.                                                                                      |
| Ventilate the area.                                                                                                        |
| <b>FIRST AID</b>                                                                                                           |
| Move victim to fresh air.                                                                                                  |
| Call emergency medical care.                                                                                               |
| Apply artificial respiration if victim is not breathing.                                                                   |
| <b>Do not use mouth-to-mouth method</b> if victim ingested or inhaled the substance;                                       |
| <b>use the Holger Nielsen method (back pressure-armlift)</b> or proper respiratory medical device.                         |
| Administer oxygen if breathing is difficult.                                                                               |
| Clothing frozen to the skin should be thawed before being removed.                                                         |
| Remove contaminated clothing and shoes.                                                                                    |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.               |
| Keep victim warm and quiet.                                                                                                |
| Effects of contact or inhalation may be delayed.                                                                           |
| Keep victim under observation.                                                                                             |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |
| <b>125- GASES - CORROSIVE</b>                                                                                              |
| <b>HEALTH</b>                                                                                                              |
| Toxic, may be fatal if inhaled.                                                                                            |
| Vapo(u)rs are <b>extremely irritating and corrosive.</b>                                                                   |
| Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.                                         |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                |
| Runoff from fire control may cause pollution.                                                                              |
| <b>FIRE OR EXPLOSION</b>                                                                                                   |
| Some may burn, but none ignite readily.                                                                                    |
| Vapo(u)rs from liquefied gas are <b>initially heavier than air.</b>                                                        |
| Some may react violently with water.                                                                                       |



|                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Containers may explode when heated.                                                                                                                                                           |
| Ruptured cylinders may rocket.                                                                                                                                                                |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 50-100 m (150 to 300 feet) in all directions.                                                                                  |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                                 |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate closed spaces before entering.                                                                                                                                                      |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self-contained breathing apparatus (SCBA). and structural firefighters protective clothing will provide limited protection.                                            |
| Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.                                                      |
| Structural firefighters' protective clothing will not provide sufficient protection.                                                                                                          |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances.                                                                                                                           |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also consider initial evacuation for 800 m (½ mile) in all directions.            |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>Small Fires:</b> Dry chemical or CO2.                                                                                                                                                      |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                         |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| Do not get water inside containers.                                                                                                                                                           |
| Damaged cylinders should be handled only by specialists.                                                                                                                                      |
| <b>Fire involving Tanks</b>                                                                                                                                                                   |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Do not direct water at source of leak or safety devices; icing may occur.                                                                                                                     |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| <b>ALWAYS</b> stay away from the ends of tanks.                                                                                                                                               |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| Do not touch or walk through spilled material.                                                                                                                                                |
| Stop leak if you can do it without risk.                                                                                                                                                      |
| If possible, turn leaking container so that gas escapes rather than liquid.                                                                                                                   |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| Use water spray to reduce vapo(u)rs or divert vapo(u)r cloud drift.                                                                                                                           |
| Do not direct water at spill or source of leak.                                                                                                                                               |
| Isolate area until gas has dispersed.                                                                                                                                                         |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care                                                                                                                                                                   |

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| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| Do not use mouth-to-mouth method if victim ingested or inhaled the substance;                                                                                                                 |
| use the Holger Nielsen method (back pressure-armlift) or proper respiratory medical device.                                                                                                   |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove contaminated clothing and shoes.                                                                                                                                                       |
| In case of contact with liquefied gas, thaw frosted parts with lukewarm water.                                                                                                                |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                  |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Effects of contact or inhalation may be delayed.                                                                                                                                              |
| Keep victim under observation.                                                                                                                                                                |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>126- GASES - COMPRESSED OR LIQUEFIED - IRRITANTS</b>                                                                                                                                       |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| Some may burn, but none ignite readily.                                                                                                                                                       |
| Containers may explode when heated                                                                                                                                                            |
| Ruptured cylinders may rocket.                                                                                                                                                                |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Vapo(u)rs may cause dizziness or asphyxiation without warning.                                                                                                                                |
| Vapo(u)rs from liquefied gas are initially heavier than air.                                                                                                                                  |
| Contact with liquid may cause frostbite.                                                                                                                                                      |
| Fire may produce irritating, corrosive and/or toxic gases.                                                                                                                                    |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 25-50 m (75 to 150 feet) in all directions.                                                                                    |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                                 |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate closed spaces before entering.                                                                                                                                                      |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self-contained breathing apparatus (SCBA).                                                                                                                             |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                                 |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| Consider initial downwind evacuation for at least 500 m (1500 feet).                                                                                                                          |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| Use extinguishing agent suitable for type of surrounding fire.                                                                                                                                |
| <b>Small Fires:</b> Dry chemical or CO2.                                                                                                                                                      |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                         |
| Move container from fire area if you can do it without risk.                                                                                                                                  |

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| Damaged cylinders should be handled only by specialists.                                                                                                                               |
| <b>Fire involving Tanks</b>                                                                                                                                                            |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                      |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                        |
| Do not direct water at source of leak or safety devices; icing may occur.                                                                                                              |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                     |
| ALWAYS stay away from the ends of tanks.                                                                                                                                               |
| Some of these materials, if spilled, may evaporate leaving a flammable residue.                                                                                                        |
| <b>SPILL OR LEAK</b>                                                                                                                                                                   |
| Do not touch or walk through spilled material.                                                                                                                                         |
| Stop leak if you can do it without risk.                                                                                                                                               |
| Use water spray to reduce vapo(u)rs or divert vapo(u)r cloud drift.                                                                                                                    |
| Do not direct water at spill or source of leak.                                                                                                                                        |
| If possible, turn leaking containers so that gas escapes rather than liquid.                                                                                                           |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                     |
| Allow substance to evaporate.                                                                                                                                                          |
| Ventilate the area.                                                                                                                                                                    |
| <b>FIRST AID</b>                                                                                                                                                                       |
| Move victim to fresh air.                                                                                                                                                              |
| Call emergency medical care.                                                                                                                                                           |
| Apply artificial respiration if victim is not breathing.                                                                                                                               |
| Administer oxygen if breathing is difficult.                                                                                                                                           |
| Remove contaminated clothing and shoes.                                                                                                                                                |
| In case of contact with liquefied gas, thaw frosted parts with lukewarm water.                                                                                                         |
| Keep victim warm and quiet.                                                                                                                                                            |
| Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                       |
| <b>127-FLAMMABLE LIQUIDS-POLAR</b>                                                                                                                                                     |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                               |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                               |
| <b>HIGHLY FLAMMABLE:</b> Will be easily ignited by heat, sparks or flames.                                                                                                             |
| Vapo(u)rs will form explosive mixtures with air.                                                                                                                                       |
| Vapo(u)rs may travel to source of ignition and flash back.                                                                                                                             |
| Most vapo(u)rs are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                    |
| Vapour explosion hazard indoors, outdoors or in sewers.                                                                                                                                |
| Some may polymerize (P) explosively when heated or involved in a fire.                                                                                                                 |
| Runoff to sewer may create fire or explosion hazard.                                                                                                                                   |
| Containers may explode when heated.                                                                                                                                                    |
| Many liquids are lighter than water.                                                                                                                                                   |
| <b>HEALTH</b>                                                                                                                                                                          |
| Inhalation or contact with material may irritate or burn skin and eyes.                                                                                                                |
| Fire may produce irritating, corrosive and/or toxic gases.                                                                                                                             |
| Vapo(u)rs may cause dizziness or suffocation.                                                                                                                                          |
| Runoff from fire control may cause pollution.                                                                                                                                          |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                   |
| CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                              |

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| Keep unauthorized personnel away.                                                                                                                                                   |
| Stay upwind.                                                                                                                                                                        |
| Keep out of low areas.                                                                                                                                                              |
| Ventilate closed spaces before entering.                                                                                                                                            |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                          |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                   |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                       |
| <b>EVACUATION</b>                                                                                                                                                                   |
| <b>Large Spill</b>                                                                                                                                                                  |
| Consider initial downwind evacuation for at least 300 m.                                                                                                                            |
| <b>Fire</b>                                                                                                                                                                         |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions. |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                           |
| <b>FIRE</b>                                                                                                                                                                         |
| Caution: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.                                                                  |
| <b>Small Fires:</b> Dry chemical, CO <sub>2</sub> , water spray or alcohol resistant foam.                                                                                          |
| <b>Large Fires:</b> Water spray, fog or alcohol resistant foam.                                                                                                                     |
| <b>Do not use straight streams.</b>                                                                                                                                                 |
| Move container from fire area if you can do it without risk.                                                                                                                        |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                    |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                   |
| When impossible, withdraw from hazard area and let burn.                                                                                                                            |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                     |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                  |
| <b>ALWAYS</b> stay away from the ends of tanks.                                                                                                                                     |
| <b>SPILL OR LEAK</b>                                                                                                                                                                |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                      |
| Do not touch or walk through spilled material.                                                                                                                                      |
| All equipment used when handling the product must be grounded.                                                                                                                      |
| Stop leak if you can do it without risk.                                                                                                                                            |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                  |
| A vapo(u)r suppressing foam may be used to reduce vapo(u)rs.                                                                                                                        |
| Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.                                                                            |
| Use clean non-sparking tools to collect absorbed material.                                                                                                                          |
| <b>Large Spills:</b> Dike far ahead of liquid spill for later disposal.                                                                                                             |
| Water spray may reduce vapo(u)r, but it may not prevent ignition in closed spaces.                                                                                                  |
| <b>FIRST AID</b>                                                                                                                                                                    |
| Move victim to fresh air.                                                                                                                                                           |
| Call emergency medical care.                                                                                                                                                        |
| Apply artificial respiration if victim is not breathing.                                                                                                                            |
| Administer oxygen if breathing is difficult.                                                                                                                                        |
| Remove and isolate contaminated clothing and shoes at the site.                                                                                                                     |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                        |
| Wash skin with soap and water.                                                                                                                                                      |
| Keep victim warm and quiet.                                                                                                                                                         |

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| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>128-FLAMMABLE LIQUIDS-NON-POLAR</b>                                                                                                                                                        |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| <b>HIGHLY FLAMMABLE:</b> Will be easily ignited by heat, sparks or flames.                                                                                                                    |
| Vapo(u)rs will form explosive mixtures with air.                                                                                                                                              |
| Vapo(u)rs may travel to source of ignition and flash back.                                                                                                                                    |
| Most vapo(u)rs are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                           |
| Vapour explosion hazard indoors, outdoors or in sewers.                                                                                                                                       |
| Some may polymerize (P) explosively when heated or involved in a fire.                                                                                                                        |
| Runoff to sewer may create fire or explosion hazard.                                                                                                                                          |
| Containers may explode when heated.                                                                                                                                                           |
| Many liquids are lighter than water.                                                                                                                                                          |
| Material may be transported hot.                                                                                                                                                              |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Inhalation or contact with material may irritate or burn skin and eyes.                                                                                                                       |
| Fire may produce irritating, corrosive and/or toxic gases.                                                                                                                                    |
| Vapo(u)rs may cause dizziness or suffocation.                                                                                                                                                 |
| Runoff from fire control or dilution water may pollute waterways.                                                                                                                             |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                                     |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate closed spaces before entering.                                                                                                                                                      |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                                 |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| Consider initial downwind evacuation for at least 300 m.                                                                                                                                      |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>Caution:</b> All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.                                                                     |
| <b>Small Fires:</b> Dry chemical, CO2, water spray or regular foam.                                                                                                                           |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                         |
| <b>Do not use straight streams.</b>                                                                                                                                                           |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| When impossible, withdraw from hazard area and let burn.                                                                                                                                      |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |

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| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| ALWAYS stay away from the ends of tanks.                                                                                                                                                      |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| ELIMINATE all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                       |
| Do not touch or walk through spilled material.                                                                                                                                                |
| All equipment used when handling the product must be grounded.                                                                                                                                |
| Stop leak if you can do it without risk.                                                                                                                                                      |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| A vapo(u)r suppressing foam may be used to reduce vapo(u)rs.                                                                                                                                  |
| Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.                                                                                      |
| Use clean non-sparking tools to collect absorbed material.                                                                                                                                    |
| <b>Large Spills:</b> Dike far ahead of liquid spill for later disposal.                                                                                                                       |
| Water spray may reduce vapo(u)r; but it may not prevent ignition in closed spaces.                                                                                                            |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care.                                                                                                                                                                  |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove and isolate contaminated clothing and shoes at the site.                                                                                                                               |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                  |
| Wash skin with soap and water.                                                                                                                                                                |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>129-FLAMMABLE LIQUIDS-IRRITANTS-POLAR</b>                                                                                                                                                  |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| <b>HIGHLY FLAMMABLE:</b> Will be easily ignited by heat, sparks or flames.                                                                                                                    |
| Vapo(u)rs will form explosive mixtures with air.                                                                                                                                              |
| Vapo(u)rs may travel to source of ignition and flash back.                                                                                                                                    |
| Most vapo(u)rs are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                           |
| Vapour explosion hazard indoors, outdoors or in sewers.                                                                                                                                       |
| Some may polymerize (P) explosively when heated or involved in a fire.                                                                                                                        |
| Runoff to sewer may create fire or explosion hazard.                                                                                                                                          |
| Containers may explode when heated.                                                                                                                                                           |
| Many liquids are lighter than water.                                                                                                                                                          |
| <b>HEALTH</b>                                                                                                                                                                                 |
| May be toxic if inhaled or absorbed through skin.                                                                                                                                             |
| Inhalation or contact with material may irritate or burn skin and eyes.                                                                                                                       |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Vapo(u)rs may cause dizziness or suffocation.                                                                                                                                                 |
| Runoff from fire control or dilution water may pollute waterways.                                                                                                                             |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                                     |

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| Keep unauthorized personnel away.                                                                                                                                                   |
| Stay upwind.                                                                                                                                                                        |
| Keep out of low areas.                                                                                                                                                              |
| Ventilate closed spaces before entering.                                                                                                                                            |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                          |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                   |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                       |
| <b>EVACUATION</b>                                                                                                                                                                   |
| <b>Large Spill</b>                                                                                                                                                                  |
| Consider initial downwind evacuation for at least 300 m.                                                                                                                            |
| <b>Fire</b>                                                                                                                                                                         |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions. |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                           |
| <b>FIRE</b>                                                                                                                                                                         |
| Caution: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.                                                                  |
| <b>Small Fires:</b> Dry chemical, CO2, water spray or alcohol resistant foam.                                                                                                       |
| Do not use dry chemical extinguishers to control fires involving nitromethane or nitroethane.                                                                                       |
| <b>Large Fires:</b> Water spray, fog or alcohol resistant foam.                                                                                                                     |
| Do not use straight streams.                                                                                                                                                        |
| Move container from fire area if you can do it without risk.                                                                                                                        |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                    |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                   |
| When impossible, withdraw from hazard area and let burn.                                                                                                                            |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                     |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                  |
| ALWAYS stay away from the ends of tanks.                                                                                                                                            |
| <b>SPILL OR LEAK</b>                                                                                                                                                                |
| ELIMINATE all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                             |
| Do not touch or walk through spilled material.                                                                                                                                      |
| All equipment used when handling the product must be grounded.                                                                                                                      |
| Stop leak if you can do it without risk.                                                                                                                                            |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                  |
| A vapo(u)r suppressing foam may be used to reduce vapo(u)rs.                                                                                                                        |
| Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.                                                                            |
| Use clean non-sparking tools to collect absorbed material.                                                                                                                          |
| <b>Large Spills:</b> Dike far ahead of liquid spill for later disposal.                                                                                                             |
| Water spray may reduce vapo(u)r; but it may not prevent ignition in closed spaces.                                                                                                  |
| <b>FIRST AID</b>                                                                                                                                                                    |
| Move victim to fresh air.                                                                                                                                                           |
| Call emergency medical care.                                                                                                                                                        |
| Apply artificial respiration if victim is not breathing.                                                                                                                            |
| Administer oxygen if breathing is difficult.                                                                                                                                        |
| Remove and isolate contaminated clothing and shoes at the site.                                                                                                                     |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                        |
| Wash skin with soap and water.                                                                                                                                                      |
| Keep victim warm and quiet.                                                                                                                                                         |

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| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                                      |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>130-FLAMMABLE LIQUIDS-IRRITANTS-NONPOLAR</b>                                                                                                                                               |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| <b>HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.</b>                                                                                                                    |
| Vapo(u)rs will form explosive mixtures with air.                                                                                                                                              |
| Vapo(u)rs may travel to source of ignition and flash back.                                                                                                                                    |
| Most vapo(u)rs are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                           |
| Vapour explosion hazard indoors, outdoors or in sewers.                                                                                                                                       |
| Some may polymerize (P) explosively when heated or involved in a fire.                                                                                                                        |
| Runoff to sewer may create fire or explosion hazard.                                                                                                                                          |
| Containers may explode when heated.                                                                                                                                                           |
| Many liquids are lighter than water.                                                                                                                                                          |
| <b>HEALTH</b>                                                                                                                                                                                 |
| May be toxic if inhaled or absorbed through skin.                                                                                                                                             |
| Inhalation or contact with material may irritate or burn skin and eyes.                                                                                                                       |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Vapo(u)rs may cause dizziness or suffocation.                                                                                                                                                 |
| Runoff from fire control or dilution water may pollute waterways.                                                                                                                             |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                                     |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate closed spaces before entering.                                                                                                                                                      |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                                 |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| Consider initial downwind evacuation for at least 300 m.                                                                                                                                      |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; <b>also, consider initial evacuation for 800 m (½ mile) in all directions.</b>    |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>Caution:</b> All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.                                                                     |
| <b>Small Fires:</b> Dry chemical, CO <sub>2</sub> , water spray or regular foam.                                                                                                              |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                         |
| <b>Do not use straight streams.</b>                                                                                                                                                           |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| When impossible, withdraw from hazard area and let burn.                                                                                                                                      |



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| Call emergency medical care.                                                                                                                                                                  |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| <b>Do not use mouth-to-mouth method if victim ingested or inhaled the substance;</b>                                                                                                          |
| <b>use the Holger Nielsen method (back pressure-armslift) or proper respiratory medical device.</b>                                                                                           |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove and isolate contaminated clothing and shoes at the site.                                                                                                                               |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                  |
| Wash skin with soap and water.                                                                                                                                                                |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                                      |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>132-FLAMMABLE LIQUIDS-CORROSIVE</b>                                                                                                                                                        |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| <b>Flammable/combustible: May be ignited by heat, sparks or flames.</b>                                                                                                                       |
| Vapo(u)rs will form explosive mixtures with air.                                                                                                                                              |
| Vapo(u)rs may travel to source of ignition and flash back.                                                                                                                                    |
| Most vapo(u)rs are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                           |
| Vapour explosion hazard indoors, outdoors or in sewers.                                                                                                                                       |
| Some may polymerize (P) explosively when heated or involved in a fire.                                                                                                                        |
| Runoff to sewer may create fire or explosion hazard.                                                                                                                                          |
| Containers may explode when heated.                                                                                                                                                           |
| Many liquids are lighter than water.                                                                                                                                                          |
| <b>HEALTH</b>                                                                                                                                                                                 |
| May be toxic if inhaled or ingested.(swallowed)                                                                                                                                               |
| Contact with material may cause severe burns to skin and eyes.                                                                                                                                |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Vapo(u)rs may cause dizziness or suffocation.                                                                                                                                                 |
| Runoff from fire control or dilution water may pollute waterways.                                                                                                                             |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 50 to 100 m in all directions.                                                                                                 |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate closed spaces before entering.                                                                                                                                                      |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| <b>Wear positive pressure self contained breathing apparatus (SCBA).</b>                                                                                                                      |
| <b>Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.</b>                                               |
| <b>Structural firefighters' protective clothing is not effective for these materials.</b>                                                                                                     |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| Consider initial downwind evacuation for at least 300 m.                                                                                                                                      |
| <b>Fire</b>                                                                                                                                                                                   |

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| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; <b>also</b> , consider initial evacuation for 800 m (½ mile) in all directions. |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                   |
| <b>FIRE</b>                                                                                                                                                                                 |
| Some of these materials may react violently with water.                                                                                                                                     |
| <b>Small Fires:</b> Dry chemical, CO2, water spray or alcohol resistant foam.                                                                                                               |
| <b>Large Fires:</b> Water spray, fog or alcohol resistant foam.                                                                                                                             |
| Move container from fire area if you can do it without risk.                                                                                                                                |
| Dike fire control water for later disposal; do not scatter the material.                                                                                                                    |
| Do not get water inside containers.                                                                                                                                                         |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                            |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                           |
| When impossible, withdraw from hazard area and let burn.                                                                                                                                    |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                             |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                          |
| <b>ALWAYS</b> stay away from the ends of tanks.                                                                                                                                             |
| <b>SPILL OR LEAK</b>                                                                                                                                                                        |
| Fully encapsulating, vapo(u)r protective clothing should be worn for spills and leaks with no fire.                                                                                         |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                              |
| Do not touch or walk through spilled material.                                                                                                                                              |
| All equipment used when handling the product must be grounded.                                                                                                                              |
| Stop leak if you can do it without risk.                                                                                                                                                    |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                          |
| A vapo(u)r suppressing foam may be used to reduce vapo(u)rs.                                                                                                                                |
| Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. (except for Hydrazine)                                                             |
| Use clean non-sparking tools to collect absorbed material.                                                                                                                                  |
| <b>Large Spills:</b> Dike far ahead of liquid spill for later disposal.                                                                                                                     |
| Water spray may reduce vapo(u)r; but it may not prevent ignition in closed spaces.                                                                                                          |
| <b>FIRST AID</b>                                                                                                                                                                            |
| Move victim to fresh air.                                                                                                                                                                   |
| Call emergency medical care.                                                                                                                                                                |
| Apply artificial respiration if victim is not breathing.                                                                                                                                    |
| <b>Do not use mouth-to-mouth method if victim ingested or inhaled the substance;</b>                                                                                                        |
| <b>use the Holger Nielsen method (back pressure-armlift) or proper respiratory medical device.</b>                                                                                          |
| Administer oxygen if breathing is difficult.                                                                                                                                                |
| Remove and isolate contaminated clothing and shoes at the site.                                                                                                                             |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                |
| Keep victim warm and quiet.                                                                                                                                                                 |
| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                                    |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                  |
| <b>133- FLAMMABLE SOLIDS</b>                                                                                                                                                                |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                    |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                    |
| Flammable/combustible material.                                                                                                                                                             |
| May be ignited by friction, heat, sparks or flames.                                                                                                                                         |
| Some may burn rapidly with flare burning effect.                                                                                                                                            |

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| Powders, dusts, shavings, borings, turnings or cuttings may explode or burn with explosive violence.                                                                                          |
| Material may be transported in a molten form.                                                                                                                                                 |
| May re-ignite after fire is extinguished.                                                                                                                                                     |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Fire may produce irritating or toxic gases.                                                                                                                                                   |
| Contact may cause burns to skin and eyes.                                                                                                                                                     |
| Contact with molten substance may cause severe burns.                                                                                                                                         |
| Runoff from fire control may cause pollution.                                                                                                                                                 |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 10-25 m in all directions.                                                                                                     |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                                 |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| Consider initial downwind evacuation for at least 100 m.                                                                                                                                      |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>Small Fires:</b> Dry chemical, CO <sub>2</sub> , sand, earth, water spray or regular foam.                                                                                                 |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                         |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| <b>Fire Involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| For massive fire in cargo area, use unmanned hose holder or monitor nozzles.                                                                                                                  |
| If this is impossible, withdraw from area and let fire burn.                                                                                                                                  |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| Always stay away from the ends of tanks.                                                                                                                                                      |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                |
| Do not touch or walk through spilled material.                                                                                                                                                |
| <b>Small Dry Spills:</b> With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.                                                       |
| <b>Large Spills:</b> Wet down with water and dike for later disposal.                                                                                                                         |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care.                                                                                                                                                                  |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove contaminated clothing and shoes.                                                                                                                                                       |

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| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                  |
| Removal of solidified molten material from skin requires medical assistance.                                                                                                                  |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>134-FLAMMABLE SOLID-TOXIC</b>                                                                                                                                                              |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| Flammable/combustible material.                                                                                                                                                               |
| May be ignited by heat, sparks or flames.                                                                                                                                                     |
| When heated, vapo(u)rs may form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards.                                                                                 |
| Contact with metals may evolve flammable hydrogen gas.                                                                                                                                        |
| Containers may explode when heated.                                                                                                                                                           |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Toxic, inhalation, ingestion, or skin contact with material may cause severe injury or death.                                                                                                 |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.                                                                                                 |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                                     |
| Stay upwind.                                                                                                                                                                                  |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate enclosed areas.                                                                                                                                                                     |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Fully encapsulating suits should be worn for maximum protection.                                                                                                                              |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| Consider initial downwind evacuation for at least 100 m.                                                                                                                                      |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>Small Fires:</b> Dry chemical, CO2, water spray or alcohol foam.                                                                                                                           |
| <b>Large Fires:</b> Water spray, fog or alcohol foam.                                                                                                                                         |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| Do not use straight streams.                                                                                                                                                                  |
| Do not get water inside containers.                                                                                                                                                           |
| Dike fire control water for later disposal; do not scatter the material.                                                                                                                      |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |

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| ALWAYS stay away from the ends of tanks.                                                                                                                                               |
| <b>SPILL OR LEAK</b>                                                                                                                                                                   |
| ELIMINATE all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                |
| Stop leak if without risk.                                                                                                                                                             |
| Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.                                                                          |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                     |
| Use clean non-sparking tools to collect material and place it into loosely covered plastic or fibreboard containers for later disposal.                                                |
| <b>FIRST AID</b>                                                                                                                                                                       |
| Move victim to fresh air.                                                                                                                                                              |
| Call emergency medical care.                                                                                                                                                           |
| Apply artificial respiration if victim is not breathing.                                                                                                                               |
| Do not use mouth-to-mouth method if victim ingested or inhaled the substance;                                                                                                          |
| use the Holger Nielsen method (back pressure-armlift) or proper respiratory medical device.                                                                                            |
| Administer oxygen if breathing is difficult.                                                                                                                                           |
| Remove contaminated clothing and shoes.                                                                                                                                                |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                           |
| For minor skin contact, avoid spreading material on unaffected skin.                                                                                                                   |
| Keep victim warm and quiet.                                                                                                                                                            |
| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                               |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                             |
| <b>135-SUBSTANCES-SPONTANEOUSLY COMBUSTIBLE</b>                                                                                                                                        |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                               |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                               |
| Flammable/combustible material.                                                                                                                                                        |
| May ignite on contact with air or moist air.                                                                                                                                           |
| May burn rapidly with flare burning effect.                                                                                                                                            |
| Some react vigorously or explosively on contact with water.                                                                                                                            |
| Some may decompose explosively when heated or involved in a fire.                                                                                                                      |
| May re-ignite after fire is extinguished.                                                                                                                                              |
| Runoff may create fire or explosion hazard.                                                                                                                                            |
| <b>HEALTH</b>                                                                                                                                                                          |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                            |
| Inhalation of substance or decomposition products may cause severe injury or death.                                                                                                    |
| Contact with substance may cause severe burns to skin and eyes.                                                                                                                        |
| Runoff from fire control may cause pollution.                                                                                                                                          |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                   |
| CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 100-150 m in all directions.                                                                                            |
| Stay upwind.                                                                                                                                                                           |
| Keep unauthorized personnel away.                                                                                                                                                      |
| Keep out of low areas.                                                                                                                                                                 |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                             |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                      |
| Structural firefighters' protective clothing will only provide limited protection.                                                                                                     |
| <b>EVACUATION</b>                                                                                                                                                                      |

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| <b>Spill</b>                                                                                                                                                                          |
| Consider initial downwind evacuation for at least 250 m.                                                                                                                              |
| <b>Fire</b>                                                                                                                                                                           |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.   |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                             |
| <b>FIRE</b>                                                                                                                                                                           |
| <b>DO NOT USE WATER, CO2 OR FOAM ON MATERIAL ITSELF.</b>                                                                                                                              |
| Some of these materials may react violently with water.                                                                                                                               |
| <b>Small Fires:</b> Dry chemical, soda ash, lime or <b>DRY</b> sand.                                                                                                                  |
| <b>Large Fires:</b> Use DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.                                                                             |
| <b>Caution:</b> Dithionite (Hydrosulfite/Hydrosulphite) fires may require flooding with water in order to eliminate hazardous reaction since the materials generate their own oxygen. |
| Move container from fire area if you can do it without risk.                                                                                                                          |
| <b>Fire Involving Tanks or Car/Trailer Loads</b>                                                                                                                                      |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                     |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                       |
| Do not get water inside containers or in contact with substance.                                                                                                                      |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                    |
| <b>ALWAYS</b> stay away from the ends of tanks.                                                                                                                                       |
| <b>SPILL OR LEAK</b>                                                                                                                                                                  |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                        |
| Do not touch or walk through spilled material.                                                                                                                                        |
| Stop leak if without risk.                                                                                                                                                            |
| <b>Small Spill:</b>                                                                                                                                                                   |
| Cover with DRY earth, sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.                                                 |
| Use clean non-sparking tools to collect the material and place it into loosely covered plastic containers for later disposal.                                                         |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                    |
| <b>FIRST AID</b>                                                                                                                                                                      |
| Move victim to fresh air.                                                                                                                                                             |
| Call emergency medical care.                                                                                                                                                          |
| Apply artificial respiration if victim is not breathing.                                                                                                                              |
| Administer oxygen if breathing is difficult.                                                                                                                                          |
| Remove contaminated clothing and shoes.                                                                                                                                               |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                          |
| Keep victim warm and quiet.                                                                                                                                                           |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                            |
| <b>136-SUBSTANCES-SPONTANEOUSLY COMBUSTIBLE-TOXIC-AIR REACTIVE</b>                                                                                                                    |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                              |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                              |
| Extremely flammable; will ignite itself if exposed to air.                                                                                                                            |
| Burns rapidly, releasing dense, white, irritating fumes.                                                                                                                              |
| Material may be transported in a molten form.                                                                                                                                         |
| May re-ignite after fire is extinguished.                                                                                                                                             |
| <b>HEALTH</b>                                                                                                                                                                         |

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| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Ingestion of substance or inhalation of decomposition products will cause severe injury or death.                                                                                             |
| Contact with substance may cause severe burns to skin and eyes.                                                                                                                               |
| Some effects may be experienced due to skin absorption.                                                                                                                                       |
| Runoff from fire control may be corrosive and/or toxic and cause pollution.                                                                                                                   |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 100-150 m in all directions.                                                                                                   |
| Stay upwind.                                                                                                                                                                                  |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Keep out of low areas.                                                                                                                                                                        |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer.                                                                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances.                                                                                                                           |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>Small Fires:</b> Dry chemical, sand, earth, water spray or regular foam.                                                                                                                   |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                         |
| <b>Do not scatter spilled material with high pressure water streams.</b>                                                                                                                      |
| <b>Move container from fire area if you can do it without risk.</b>                                                                                                                           |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| <b>Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.</b>                                                                                                      |
| <b>Cool containers with flooding quantities of water until well after fire is out.</b>                                                                                                        |
| <b>Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.</b>                                                                                     |
| <b>ALWAYS stay away from the ends of tanks.</b>                                                                                                                                               |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                |
| <b>Do not touch or walk through spilled material.</b>                                                                                                                                         |
| <b>Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.</b>                                                                          |
| <b>Stop leak if without risk.</b>                                                                                                                                                             |
| <b>Small Spills:</b> Cover with water, sand or earth. Shovel into metal container and keep material under water.                                                                              |
| <b>Large Spills:</b> Dike for later disposal and cover with wet sand or earth.                                                                                                                |
| <b>Prevent entry into waterways, sewers, basements or confined areas.</b>                                                                                                                     |
| <b>FIRST AID</b>                                                                                                                                                                              |
| <b>Move victim to fresh air.</b>                                                                                                                                                              |
| <b>Call emergency medical care.</b>                                                                                                                                                           |
| <b>Apply artificial respiration if victim is not breathing.</b>                                                                                                                               |
| <b>Administer oxygen if breathing is difficult.</b>                                                                                                                                           |

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| In case of contact with material, keep exposed skin areas immersed in water or covered with wet bandages until medical attention is received.                                                 |
| Removal of solidified molten material from skin requires medical assistance.                                                                                                                  |
| Remove and isolate contaminated clothing and shoes at the site and place in metal container filled with water. Fire hazard if allowed to dry.                                                 |
| Effects of exposure (inhalation, ingestion or skin contact) may be delayed; keep victim under observation.                                                                                    |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>137-SUBSTANCES-CORROSIVE-WATER-REACTIVE</b>                                                                                                                                                |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Inhalation, ingestion or contact (skin, eyes) with vapours, dusts or substance may cause severe injury, burns, or death.                                                                      |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Reaction with water may generate much heat which will increase the concentration of fumes in the air.                                                                                         |
| Contact with molten substance may cause severe burns to skin and eyes.                                                                                                                        |
| Runoff from fire control or dilution water may cause pollution.                                                                                                                               |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| Some of these materials may burn, but none of them ignites readily.                                                                                                                           |
| May ignite other combustible materials (wood, paper, oil, etc.).                                                                                                                              |
| Substance will react with water (some violently), releasing corrosive and/or toxic gases.                                                                                                     |
| Flammable/toxic gases may accumulate in confined areas (basement, tanks, hopper/tank cars etc.)                                                                                               |
| Contact with metals may evolve flammable hydrogen gas.                                                                                                                                        |
| Containers may explode when heated or if contaminated with water.                                                                                                                             |
| Material may be transported in a molten form.                                                                                                                                                 |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 15-25 m in all directions.                                                                                                     |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind                                                                                                                                                                                   |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate enclosed areas.                                                                                                                                                                     |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA)                                                                                                                              |
| Wear chemical protective clothing which is specifically recommended by the manufacturer.                                                                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>SPILL</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances.                                                                                                                           |
| <b>FIRE</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; <b>also</b> , consider initial evacuation for 800 m (½ mile) in all directions.   |
| <b>EMERGENCY ACTION</b>                                                                                                                                                                       |
| <b>FIRE</b>                                                                                                                                                                                   |
| When material is not involved in fire: do not use water on material itself.                                                                                                                   |



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| <b>Small fires:</b> Use CO2, dry chemical.                                                                                                                                 |
| Move container from fire area if you can do it without risk.                                                                                                               |
| <b>Large Fires:</b> Flood fire area with large quantities of water, while knocking down vapo(u)rs with water fog. If insufficient water supply: knock down vapo(u)rs only. |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                           |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                            |
| Do not get water inside containers.                                                                                                                                        |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                         |
| ALWAYS stay away from the ends of tanks.                                                                                                                                   |
| <b>SPILL OR LEAK</b>                                                                                                                                                       |
| Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.                                                              |
| Stop leak if without risk.                                                                                                                                                 |
| Fully encapsulating, vapo(u)r protective clothing should be worn for spills and leaks with no fire.                                                                        |
| Use water spray to reduce vapo(u)r; do not put water directly on leak, spill area or inside container.                                                                     |
| Keep combustibles (wood, paper, oil, etc.) away from spilled material.                                                                                                     |
| <b>Small Spills:</b> Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.             |
| Use clean non-sparking tools to collect the material and place it into loosely covered plastic containers for later disposal.                                              |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                         |
| <b>FIRST AID</b>                                                                                                                                                           |
| Move victim to fresh air.                                                                                                                                                  |
| Call emergency medical care.                                                                                                                                               |
| Apply artificial respiration if victim is not breathing.                                                                                                                   |
| <b>Do not use mouth-to-mouth method</b> if victim ingested or inhaled the substance;                                                                                       |
| <b>use the Holger Nielsen method (back pressure-armlift) or proper respiratory medical device.</b>                                                                         |
| Administer oxygen if breathing is difficult.                                                                                                                               |
| Remove contaminated clothing and shoes.                                                                                                                                    |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                               |
| For minor skin contact, avoid spreading material on unaffected skin.                                                                                                       |
| Removal of solidified molten material from skin requires medical assistance.                                                                                               |
| Keep victim warm and quiet.                                                                                                                                                |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                 |
| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                   |
| <b>138-WATER REACTIVE SUBSTANCES</b>                                                                                                                                       |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                   |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                   |
| Produce flammable substances on contact with water.                                                                                                                        |
| May ignite on contact with water or moist air.                                                                                                                             |
| Some react vigorously or explosively on contact with water.                                                                                                                |
| May be ignited by heat, sparks or flames.                                                                                                                                  |
| May re-ignite after fire is extinguished.                                                                                                                                  |
| Some are transported in flammable liquids.                                                                                                                                 |
| Runoff may create fire or explosion hazard.                                                                                                                                |
| May re-ignite after fire is extinguished.                                                                                                                                  |
| <b>HEALTH</b>                                                                                                                                                              |

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| Inhalation or contact with vapo(u)r, substance, or decomposition products may cause severe injury or death.                                                                                   |
| May produce toxic gases and/or corrosive solutions on contact with water.                                                                                                                     |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Runoff from fire control may cause pollution.                                                                                                                                                 |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 50-100 m in all directions.                                                                                                    |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate the area before entry.                                                                                                                                                              |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                                 |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| Consider initial downwind evacuation for at least 250 m.                                                                                                                                      |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; <b>also</b> , consider initial evacuation for 800 m (½ mile) in all directions.   |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>DO NOT USE WATER OR FOAM.</b>                                                                                                                                                              |
| <b>Small Fire:</b> Dry chemical, soda ash, lime or sand.                                                                                                                                      |
| <b>Large Fire:</b> Use DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.                                                                                      |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| <b>Magnesium Fires:</b> Use DRY sand, sodium chloride powder, graphite powder or <b>Met- L-X</b> powder.                                                                                      |
| <b>Lithium Fires:</b> Use DRY sand, sodium chloride powder, graphite powder, copper powder or <b>Lith-X</b> powder.                                                                           |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Do not get water inside containers.                                                                                                                                                           |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| <b>ALWAYS stay away from the ends of tanks.</b>                                                                                                                                               |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                |
| Do not touch or walk through spilled material.                                                                                                                                                |
| Stop leak if without risk.                                                                                                                                                                    |
| Use water spray to reduce vapours or divert vapour cloud drift.                                                                                                                               |
| <b>DO NOT GET WATER</b> on spilled substance or inside containers.                                                                                                                            |
| <b>Spills:</b> Cover with DRY earth, sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.                                          |
| <b>Dike for later disposal; do not apply water unless directed to do so.</b>                                                                                                                  |

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| <b>Powder Spills:</b> Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.                                                                                |
| <b>DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.</b>                                                                                                               |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air                                                                                                                                                                      |
| Call emergency medical care.                                                                                                                                                                  |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove and isolate contaminated clothing and shoes at the site.                                                                                                                               |
| In case of contact with material, wipe material from skin immediately; flush skin or eyes with running water for at least 15 minutes.                                                         |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>139-WATER REACTIVE SUBSTANCES EVOLVING FLAMMABLE AND TOXIC SUBSTANCES</b>                                                                                                                  |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| Produce flammable and toxic substances on contact with water.                                                                                                                                 |
| May ignite on contact with water or moist air.                                                                                                                                                |
| Some react vigorously or explosively on contact with water.                                                                                                                                   |
| May be ignited by heat, sparks or flames.                                                                                                                                                     |
| May re-ignite after fire is extinguished.                                                                                                                                                     |
| Some are transported in highly flammable liquids.                                                                                                                                             |
| Runoff may create fire or explosion hazard.                                                                                                                                                   |
| May re-ignite after fire is extinguished.                                                                                                                                                     |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Highly toxic: contact with water produces toxic gas, may be fatal if inhaled.                                                                                                                 |
| Inhalation or contact with vapo(u)r, substance, or decomposition products may cause severe injury or death.                                                                                   |
| May produce corrosive solutions on contact with water.                                                                                                                                        |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Runoff from fire control may cause pollution.                                                                                                                                                 |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 100-150 m in all directions.                                                                                                   |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate the area before entry.                                                                                                                                                              |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer.                                                                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| See the Table of Initial Isolation and Protective Action Distances.                                                                                                                           |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |

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| <b>EMERGENCY RESPONSE</b>                                                                                                                            |
| <b>FIRE</b>                                                                                                                                          |
| <b>DO NOT USE WATER OR FOAM.</b>                                                                                                                     |
| <b>Small Fire:</b> Dry chemical, soda ash, lime or sand.                                                                                             |
| <b>Large Fire:</b> Use DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.                                             |
| Move container from fire area if you can do it without risk.                                                                                         |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                     |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                    |
| Cool containers with flooding quantities of water until well after fire is out.                                                                      |
| Do not get water inside containers.                                                                                                                  |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                   |
| ALWAYS stay away from the ends of tanks.                                                                                                             |
| <b>SPILL OR LEAK</b>                                                                                                                                 |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                       |
| Do not touch or walk through spilled material.                                                                                                       |
| Fully encapsulating, vapo(u)r protective clothing should be worn for spills and leaks with no fire.                                                  |
| Stop leak if without risk.                                                                                                                           |
| Use water spray to reduce vapours or divert vapour cloud drift.                                                                                      |
| <b>DO NOT GET WATER</b> on spilled substance or inside containers.                                                                                   |
| <b>Spills:</b> Cover with DRY earth, sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. |
| Dike for later disposal; <b>do not apply water</b> unless directed to do so.                                                                         |
| <b>Powder Spills:</b> Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.                                       |
| <b>DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.</b>                                                                      |
| <b>FIRST AID</b>                                                                                                                                     |
| Move victim to fresh air                                                                                                                             |
| Call emergency medical care.                                                                                                                         |
| Apply artificial respiration if victim is not breathing.                                                                                             |
| <b>Do not use mouth-to-mouth method</b> if victim ingested or inhaled the substance;                                                                 |
| <b>use the Holger Nielsen method (back pressure-armslift) or proper respiratory medical device.</b>                                                  |
| Administer oxygen if breathing is difficult.                                                                                                         |
| Remove and isolate contaminated clothing and shoes at the site.                                                                                      |
| In case of contact with material, wipe material from skin immediately; flush skin or eyes with running water for at least 15 minutes.                |
| Keep victim warm and quiet.                                                                                                                          |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                           |
| <b>140-OXIDIZERS</b>                                                                                                                                 |
| <b>POTENTIAL HAZARDS</b>                                                                                                                             |
| <b>FIRE OR EXPLOSION</b>                                                                                                                             |
| These materials will accelerate burning when involved in a fire.                                                                                     |
| Some may decompose explosively when heated or involved in a fire.                                                                                    |
| <i>May explode from heating or contamination.</i>                                                                                                    |
| Some will react explosively with hydrocarbons (fuels).                                                                                               |
| May ignite combustibles (wood, paper, oil, clothing, etc.)                                                                                           |
| Fire may produce irritating, corrosive and/or toxic gases.                                                                                           |
| Containers may explode when heated.                                                                                                                  |
| Runoff may create fire or explosion hazard.                                                                                                          |

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| <b>EVACUATION</b>                                                                                                                                                            |
| <b>Large Spill</b>                                                                                                                                                           |
| Consider initial downwind evacuation for at least 250 m.                                                                                                                     |
| <b>Fire</b>                                                                                                                                                                  |
| If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions. |
| <b>EMERGENCY ACTION</b>                                                                                                                                                      |
| <b>Small Fires:</b> Dry chemical, CO2, water spray or regular foam.                                                                                                          |
| <b>Large Fires:</b> Use flooding quantities of water.                                                                                                                        |
| Move container from fire area if you can do it without risk.                                                                                                                 |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                             |
| <b>BEWARE OF POSSIBLE CONTAINER EXPLOSION</b>                                                                                                                                |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                            |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                              |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                           |
| Always stay away from the ends of tanks.                                                                                                                                     |
| <b>SPILL OR LEAK</b>                                                                                                                                                         |
| ELIMINATE all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                      |
| Do not touch or walk through spilled material.                                                                                                                               |
| Stop leak if without risk.                                                                                                                                                   |
| Absorb with earth, sand or other non-combustible material and transfer to container.                                                                                         |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                           |
| <b>FIRST AID</b>                                                                                                                                                             |
| Move victim to fresh air.                                                                                                                                                    |
| Call emergency medical care.                                                                                                                                                 |
| Apply artificial respiration if victim is not breathing.                                                                                                                     |
| Administer oxygen if breathing is difficult.                                                                                                                                 |
| Remove contaminated clothing and shoes.                                                                                                                                      |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                 |
| Keep victim warm and quiet.                                                                                                                                                  |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                   |
| <b>151- SUBSTANCES - TOXIC-NON COMBUSTIBLE</b>                                                                                                                               |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                     |
| <b>HEALTH</b>                                                                                                                                                                |
| Highly toxic, may be fatal if inhaled, swallowed or absorbed through skin.                                                                                                   |
| Avoid any skin contact.                                                                                                                                                      |
| Effects of contact or inhalation may be delayed.                                                                                                                             |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                  |
| Runoff from fire control or dilution water may be corrosive and/or toxic and pollute waterways.                                                                              |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                     |
| Material itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.                                                                        |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                  |
| Containers may explode when heated.                                                                                                                                          |
| Runoff may pollute waterways.                                                                                                                                                |
| <b>PUBLIC SAFETY</b>                                                                                                                                                         |

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| <b>CALL Emergency Response Telephone Number</b> on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                                     |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer.                                                                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances for highlighted substances.                                                                                                |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>Small Fire:</b> Use dry chemical, CO2 or water spray.                                                                                                                                      |
| <b>Large Fire:</b> Use water spray, fog or regular foam.                                                                                                                                      |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| Dike fire control water for later disposal; do not scatter the material.                                                                                                                      |
| Do not use straight streams.                                                                                                                                                                  |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| When impossible, withdraw from hazard area and let burn.                                                                                                                                      |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Do not get water inside containers.                                                                                                                                                           |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| <b>ALWAYS</b> stay away from the ends of tanks.                                                                                                                                               |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.                                                                                 |
| Stop leak if you can do it without risk.                                                                                                                                                      |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| Cover with plastic sheet to prevent spreading.                                                                                                                                                |
| Absorb with earth, sand or other non-combustible material and transfer to container.                                                                                                          |
| <b>DO NOT GET WATER INSIDE CONTAINERS.</b>                                                                                                                                                    |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care.                                                                                                                                                                  |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| <b>Do not use mouth-to-mouth method</b> if victim ingested or inhaled the substance;                                                                                                          |
| <b>use the Holger Nielsen method (back pressure-armslift) or proper respiratory medical device.</b>                                                                                           |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove and isolate contaminated clothing and shoes.                                                                                                                                           |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                  |
| For minor skin contact, avoid spreading material on unaffected skin.                                                                                                                          |
| Keep victim warm and quiet.                                                                                                                                                                   |

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| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                                      |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>152- SUBSTANCES - TOXIC and COMBUSTIBLE</b>                                                                                                                                                |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Highly toxic, may be fatal if inhaled, swallowed or absorbed through skin.                                                                                                                    |
| Contact with molten substance may cause severe burns to skin and eyes.                                                                                                                        |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Runoff from fire control or dilution water may be corrosive and/or poisonous and pollute waterways.                                                                                           |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| Combustible material: may burn but does not ignite readily.                                                                                                                                   |
| Containers may explode when heated.                                                                                                                                                           |
| Some may decompose (E) or polymerize (P) explosively when heated or involved in a fire.                                                                                                       |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Runoff may pollute waterways.                                                                                                                                                                 |
| Material may be transported in a molten form.                                                                                                                                                 |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                                     |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer.                                                                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances for highlighted substances.                                                                                                |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>Small Fire:</b> Use dry chemical, CO2 or water spray.                                                                                                                                      |
| <b>Large Fire:</b> Use water spray, fog or regular foam.                                                                                                                                      |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| Dike fire control water for later disposal; do not scatter the material.                                                                                                                      |
| Do not use straight streams.                                                                                                                                                                  |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| When impossible, withdraw from hazard area and let burn.                                                                                                                                      |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Do not get water inside containers.                                                                                                                                                           |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| <b>ALWAYS</b> stay away from the ends of tanks.                                                                                                                                               |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.                                                                                 |
| Stop leak if you can do it without risk.                                                                                                                                                      |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| Cover with plastic sheet to prevent spreading.                                                                                                                                                |
| Absorb with earth, sand or other non-combustible material and transfer to container.                                                                                                          |
| <b>DO NOT GET WATER INSIDE CONTAINERS.</b>                                                                                                                                                    |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care.                                                                                                                                                                  |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| <b>Do not use mouth-to-mouth method if victim ingested or inhaled the substance;</b>                                                                                                          |
| <b>use the Holger Nielsen method (back pressure-armlift) or proper respiratory medical device.</b>                                                                                            |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove and isolate contaminated clothing and shoes.                                                                                                                                           |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                  |
| For minor skin contact, avoid spreading material on unaffected skin.                                                                                                                          |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                                      |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>153- SUBSTANCES - TOXIC and/or CORROSIVE-COMBUSTIBLE</b>                                                                                                                                   |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Inhalation, ingestion, or skin contact with material may cause severe injury or death.                                                                                                        |
| Contact with molten substance may cause severe burns to skin and eyes.                                                                                                                        |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Runoff from fire control or dilution water may be corrosive and/or toxic and pollute waterways.                                                                                               |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| Combustible material : may burn but does not ignite readily.                                                                                                                                  |
| When heated, vapours may form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards.                                                                                   |
| Some may decompose (E) or polymerize (P) explosively when heated or involved in a fire.                                                                                                       |
| Contact with metals may evolve flammable hydrogen gas.                                                                                                                                        |
| Containers may explode when heated.                                                                                                                                                           |
| Runoff may pollute waterways.                                                                                                                                                                 |
| Material may be transported in a molten form.                                                                                                                                                 |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                                     |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate enclosed areas.                                                                                                                                                                     |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer.                                                                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |



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| <b>EVACUATION</b>                                                                                                                                                                                  |
| <b>Spill</b>                                                                                                                                                                                       |
| See the Table of Initial Isolation and Protective Action Distances for highlighted substances.                                                                                                     |
| <b>Fire</b>                                                                                                                                                                                        |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; <b>also</b> , consider <b>initial evacuation</b> for 800 m (½ mile) in all directions. |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                          |
| <b>Small Fire:</b> Use dry chemical, CO2 or water spray.                                                                                                                                           |
| <b>Large Fire:</b> Use dry chemical, CO2, alcohol resistant foam or water spray.                                                                                                                   |
| Move container from fire area if you can do it without risk.                                                                                                                                       |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                                   |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                                  |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                                    |
| Do not get water inside containers.                                                                                                                                                                |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                                 |
| ALWAYS stay away from the ends of tanks.                                                                                                                                                           |
| <b>SPILL OR LEAK</b>                                                                                                                                                                               |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                     |
| Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.                                                                                      |
| Stop leak if you can do it without risk.                                                                                                                                                           |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                                 |
| Absorb with earth, sand or other non-combustible material and transfer to container.                                                                                                               |
| <b>DO NOT GET WATER INSIDE CONTAINERS.</b>                                                                                                                                                         |
| <b>FIRST AID</b>                                                                                                                                                                                   |
| Move victim to fresh air.                                                                                                                                                                          |
| Call emergency medical care.                                                                                                                                                                       |
| Apply artificial respiration if victim is not breathing.                                                                                                                                           |
| <b>Do not use mouth-to-mouth method</b> if victim ingested or inhaled the substance;                                                                                                               |
| <b>use the Holger Nielsen method</b> (back pressure-armslift) or proper respiratory medical device.                                                                                                |
| Administer oxygen if breathing is difficult.                                                                                                                                                       |
| Remove and isolate contaminated clothing and shoes.                                                                                                                                                |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                       |
| For minor skin contact, avoid spreading material on unaffected skin.                                                                                                                               |
| Keep victim warm and quiet.                                                                                                                                                                        |
| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                                           |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                         |
| <b>154- SUBSTANCES - TOXIC and/or CORROSIVE-NON COMBUSTIBLE</b>                                                                                                                                    |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                           |
| <b>HEALTH</b>                                                                                                                                                                                      |
| Inhalation, ingestion, or skin contact with material may cause severe injury or death.                                                                                                             |
| Contact with molten substance may cause severe burns to skin and eyes.                                                                                                                             |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                        |
| Runoff from fire control or dilution water may be corrosive and/or toxic and pollute waterways.                                                                                                    |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                           |
| Non combustible                                                                                                                                                                                    |
| Material itself does not burn but may decompose upon heating to produce corrosive and/or poisonous fumes.                                                                                          |

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| Some may decompose (E) or polymerize (P) explosively when heated or involved in a fire.                                                                                                       |
| Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.).                                                                                                            |
| Contact with metals may evolve flammable hydrogen gas.                                                                                                                                        |
| Containers may explode when heated.                                                                                                                                                           |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL</b> Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                                     |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate enclosed areas.                                                                                                                                                                     |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer.                                                                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances for highlighted substances.                                                                                                |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>Small Fire:</b> Use dry chemical, CO2 or water spray.                                                                                                                                      |
| <b>Large Fire:</b> Use dry chemical, CO2, alcohol resistant foam or water spray.                                                                                                              |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Do not get water inside containers.                                                                                                                                                           |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| ALWAYS stay away from the ends of tanks.                                                                                                                                                      |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| ELIMINATE all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                       |
| Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.                                                                                 |
| Stop leak if you can do it without risk.                                                                                                                                                      |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| Absorb or cover with dry earth, sand or other non-combustible material and transfer to container.                                                                                             |
| <b>DO NOT GET WATER INSIDE CONTAINERS.</b>                                                                                                                                                    |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care.                                                                                                                                                                  |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| Do not use mouth-to-mouth method if victim ingested or inhaled the substance;                                                                                                                 |
| use the Holger Nielsen method (back pressure-armlift) or proper respiratory medical device.                                                                                                   |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove and isolate contaminated clothing and shoes.                                                                                                                                           |

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| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                  |
| For minor skin contact, avoid spreading material on unaffected skin.                                                                                                                          |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                                      |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>155- SUBSTANCES - FLAMMABLE, TOXIC and/or CORROSIVE (Water sensitive substances)</b>                                                                                                       |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| <b>HIGHLY FLAMMABLE</b>                                                                                                                                                                       |
| Will be easily ignited by heat, sparks or flames.                                                                                                                                             |
| Vapo(u)rs form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards.                                                                                                  |
| Most vapo(u)rs are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                           |
| Vapo(u)rs may travel to source of ignition and flash back.                                                                                                                                    |
| Substance will react with water (some violently) releasing flammable, toxic or corrosive gases and runoff.                                                                                    |
| Some may decompose (E) or polymerize (P) explosively when heated or involved in a fire.                                                                                                       |
| Contact with metals may evolve flammable hydrogen gas.                                                                                                                                        |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Containers may explode when heated or if contaminated with water.                                                                                                                             |
| <b>HEALTH</b>                                                                                                                                                                                 |
| <b>Bromoacetates and chloroacetates are extremely irritating/lachrymators</b>                                                                                                                 |
| Inhalation, ingestion or contact (skin, eyes) with vapo(u)rs, dusts or substance may cause severe injury, burns, or death.                                                                    |
| Reaction with water or moist air will release toxic, corrosive or flammable gases.                                                                                                            |
| Reaction with water may generate much heat which will increase the concentration of fumes in the air.                                                                                         |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Runoff from fire control or dilution water may be corrosive and/or toxic and pollute waterways.                                                                                               |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions. Keep upwind.                                                                                        |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate enclosed areas.                                                                                                                                                                     |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer.                                                                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances for highlighted substances.                                                                                                |
| <b>Fire</b>                                                                                                                                                                                   |

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| If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions. |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                    |
| <b>Small Fire:</b> Use CO2, dry chemical, dry sand, alcohol foam.                                                                                                            |
| Move container from fire area if you can do it without risk.                                                                                                                 |
| <b>Large Fire:</b> Use water spray, fog or alcohol foam.                                                                                                                     |
| <b>Note:</b> Most foams will react with the material and release corrosive/toxic gases.                                                                                      |
| Do not use straight streams.                                                                                                                                                 |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                             |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                            |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                              |
| Do not get water inside containers.                                                                                                                                          |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                           |
| ALWAYS stay away from the ends of tanks.                                                                                                                                     |
| <b>SPILL OR LEAK</b>                                                                                                                                                         |
| ELIMINATE all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                      |
| All equipment used when handling the product must be grounded.                                                                                                               |
| Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.                                                                |
| Stop leak if you can do it without risk.                                                                                                                                     |
| A vapo(u)r suppressing foam may be used to control vapo(u)rs.                                                                                                                |
| Use water spray to reduce vapo(u)rs or divert vapo(u)r cloud drift.                                                                                                          |
| <b>DO NOT GET WATER INSIDE CONTAINERS.</b>                                                                                                                                   |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                           |
| <b>Small Spill:</b>                                                                                                                                                          |
| Cover with DRY earth, sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.                                        |
| Use clean non-sparking tools to collect the material and place it into loosely covered plastic containers for later disposal.                                                |
| <b>FIRST AID</b>                                                                                                                                                             |
| Move victim to fresh air.                                                                                                                                                    |
| Call emergency medical care.                                                                                                                                                 |
| Apply artificial respiration if victim is not breathing.                                                                                                                     |
| <b>Do not use mouth-to-mouth method if victim ingested or inhaled the substance;</b>                                                                                         |
| <b>use the Holger Nielsen method (back pressure-armlift) or proper respiratory medical device.</b>                                                                           |
| Administer oxygen if breathing is difficult.                                                                                                                                 |
| Remove and isolate contaminated clothing and shoes.                                                                                                                          |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                 |
| For minor skin contact, avoid spreading material on unaffected skin.                                                                                                         |
| Keep victim warm and quiet.                                                                                                                                                  |
| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                                                                     |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                   |
| <b>156- SUBSTANCES - TOXIC and/or CORROSIVE-COMBUSTIBLE (Water sensitive substances)</b>                                                                                     |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                     |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                     |
| Combustible material: material will burn but it may take some effort to ignite.                                                                                              |

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| Substance will react with water (some violently) releasing flammable, toxic or corrosive gases and runoff.                                                                                    |
| Some may polymerize (P) explosively when heated or involved in a fire.                                                                                                                        |
| When heated, vapo(u)rs may form explosive mixtures with air. indoors, outdoors, and sewers explosion hazards.                                                                                 |
| Most vapo(u)rs are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).                                                           |
| Vapo(u)rs may travel to source of ignition and flash back.                                                                                                                                    |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Containers may explode when heated or if contaminated with water.                                                                                                                             |
| Contact with metals may evolve flammable hydrogen gas.                                                                                                                                        |
| <b>HEALTH</b>                                                                                                                                                                                 |
| <b>Bromoacetates and chloroacetates are extremely irritating/lachrymators</b>                                                                                                                 |
| Inhalation, ingestion or contact (skin, eyes) with vapo(u)rs, dusts or substance may cause severe injury, burns, or death.                                                                    |
| Reaction with water or moist air will release toxic, corrosive or flammable gases.                                                                                                            |
| Reaction with water may generate much heat which will increase the concentration of fumes in the air.                                                                                         |
| Fire will produce irritating, corrosive and/or poisonous gases.                                                                                                                               |
| Runoff from fire control or dilution water may be corrosive and/or toxic and pollute waterways.                                                                                               |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 15-25 m in all directions.                                                                                                     |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| Keep out of low areas.                                                                                                                                                                        |
| Ventilate enclosed areas.                                                                                                                                                                     |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Wear chemical protective clothing which is specifically recommended by the manufacturer.                                                                                                      |
| Structural firefighters' protective clothing is not effective for these materials.                                                                                                            |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Spill</b>                                                                                                                                                                                  |
| See the Table of Initial Isolation and Protective Action Distances for highlighted substances.                                                                                                |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>Small Fire:</b> Use CO2, dry chemical, dry sand, alcohol resistant foam.                                                                                                                   |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| <b>Large Fire:</b> Use water spray, fog or alcohol foam.                                                                                                                                      |
| <b>Note:</b> Most foams will react with the material and release corrosive/toxic gases.                                                                                                       |
| Do not use straight streams.                                                                                                                                                                  |
| <b>Fire Involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.                                                                                                             |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Do not get water inside containers.                                                                                                                                                           |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |

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| ALWAYS stay away from the ends of tanks.                                                                                              |
| <b>SPILL OR LEAK</b>                                                                                                                  |
| ELIMINATE all ignition sources (no smoking, flares, sparks or flame in immediate area).                                               |
| All equipment used when handling the product must be grounded.                                                                        |
| Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.                         |
| Stop leak if you can do it without risk.                                                                                              |
| A vapo(u)r suppressing foam may be used to control vapo(u)rs.                                                                         |
| Use water spray to reduce vapo(u)rs or divert vapo(u)r cloud drift.                                                                   |
| <b>DO NOT GET WATER INSIDE CONTAINERS.</b>                                                                                            |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                    |
| <b>Small Spill:</b>                                                                                                                   |
| Cover with DRY earth, sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. |
| Use clean non-sparking tools to collect the material and place it into loosely covered plastic containers for later disposal.         |
| <b>FIRST AID</b>                                                                                                                      |
| Move victim to fresh air.                                                                                                             |
| Call emergency medical care.                                                                                                          |
| Apply artificial respiration if victim is not breathing.                                                                              |
| Do not use mouth-to-mouth method if victim ingested or inhaled the substance;                                                         |
| use the Holger Nielsen method (back pressure-arnlift) or proper respiratory medical device.                                           |
| Administer oxygen if breathing is difficult.                                                                                          |
| Remove and isolate contaminated clothing and shoes.                                                                                   |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                          |
| For minor skin contact, avoid spreading material on unaffected skin.                                                                  |
| Keep victim warm and quiet.                                                                                                           |
| Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.                                              |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.            |
| <b>157-SUBSTANCES-TOXIC/CORROSIVE-NON-COMBUSTIBLE (WATER-SENSITIVE)</b>                                                               |
| <b>POTENTIAL HAZARDS</b>                                                                                                              |
| <b>HEALTH</b>                                                                                                                         |
| Inhalation, ingestion or contact (skin, eyes) with vapo(u)rs, dusts or substance may cause severe injury, burns, or death.            |
| Reaction with water or moist air will release toxic, corrosive or flammable gases.                                                    |
| Reaction with water may generate much heat which will increase the concentration of fumes in the air.                                 |
| Fire will produce irritating, corrosive and/or poisonous gases.                                                                       |
| Runoff from fire control or dilution water may be corrosive and/or toxic and pollute waterways.                                       |
| <b>FIRE OR EXPLOSION</b>                                                                                                              |
| Non combustible (Water reactive)                                                                                                      |
| Material itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.                                 |
| Vapours may accumulate in confined areas (basement, tanks, hopper/tank cars etc.).                                                    |
| Substance will react with water (some violently), releasing corrosive and/or toxic gases.                                             |
| Reaction with water may generate much heat which will increase the concentration of fumes in the air.                                 |
| Heat of reaction may be high enough to ignite combustibles.                                                                           |
| Containers may explode when heated or if contaminated with water.                                                                     |

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| Keep unauthorized personnel away.                                                                                                                                                      |
| Ventilate closed spaces before entering.                                                                                                                                               |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                             |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                      |
| Wear flame retardant structural firefighters protective clothing, including faceshield, helmet and gloves, this will provide limited thermal protection.                               |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                              |
| <b>FIRE</b>                                                                                                                                                                            |
| Do Not Use Water, except in life threatening situations and then only in a fine spray.                                                                                                 |
| Do Not Use halogenated extinguishing agents or foam.                                                                                                                                   |
| Move combustibles out of path of advancing pool if you can do so without risk.                                                                                                         |
| Extinguish fires started by molten material by using appropriate method for the burning material; keep water, halogenated extinguishing agents and foam away from the molten material. |
| <b>SPILL OR LEAK</b>                                                                                                                                                                   |
| Do not touch or walk through spilled material.                                                                                                                                         |
| Do not attempt to stop leak, due to danger of explosion.                                                                                                                               |
| Keep combustibles (wood, paper, oil, debris, etc.) away from spilled material.                                                                                                         |
| Material is very fluid, spreads quickly, and may splash. Do not try to stop it with shovels or other objects.                                                                          |
| Dike far ahead of spill; use dry sand to contain the flow of material.                                                                                                                 |
| Where possible allow molten material to solidify naturally.                                                                                                                            |
| Avoid contact even after material solidifies. Molten, heated and cold aluminum look alike; do not touch unless you know it is cold.                                                    |
| Cleanup under the supervision of an expert after material has solidified.                                                                                                              |
| <b>FIRST AID</b>                                                                                                                                                                       |
| Move victim to fresh air.                                                                                                                                                              |
| Call emergency medical care.                                                                                                                                                           |
| Apply artificial respiration if victim is not breathing.                                                                                                                               |
| Administer oxygen if breathing is difficult.                                                                                                                                           |
| For severe burns, immediate medical attention is required.                                                                                                                             |
| Removal of solidified molten material from skin requires medical assistance.                                                                                                           |
| Remove contaminated clothing and shoes.                                                                                                                                                |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                           |
| Keep victim warm and quiet.                                                                                                                                                            |
| <b>170 METALS -Powders, dusts, shavings, borings, turnings, or cuttings</b>                                                                                                            |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                               |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                               |
| Some may polymerize (P) explosively when heated or involved in a fire.                                                                                                                 |
| May explode from heating, shock, friction or contamination.                                                                                                                            |
| May react vigorously or explosively on contact with water.                                                                                                                             |
| Some may decompose explosively when heated or involved in a fire.                                                                                                                      |
| May be ignited by friction, heat, sparks or flames.                                                                                                                                    |
| Powders, dusts, shavings, borings, turnings or cuttings will burn with intense heat and may react explosively with water.                                                              |
| Dusts or fumes may form explosive mixtures in air.                                                                                                                                     |
| Containers may explode when heated.                                                                                                                                                    |
| May re-ignite after fire is extinguished.                                                                                                                                              |
| <b>HEALTH</b>                                                                                                                                                                          |
| Oxides from metallic fires are a severe health hazard.                                                                                                                                 |

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| Inhalation or contact with vapour, substance, or decomposition products may cause severe injury or death.                                                                                     |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                                   |
| Runoff from fire control or dilution water may pollute waterways.                                                                                                                             |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 25-50 m in all directions.                                                                                                     |
| Stay upwind.                                                                                                                                                                                  |
| Keep unauthorized personnel away.                                                                                                                                                             |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self-contained breathing apparatus (SCBA).                                                                                                                             |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                                 |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>Large Spill</b>                                                                                                                                                                            |
| Consider initial downwind evacuation for at least 50 m.                                                                                                                                       |
| <b>Fire</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, <b>ISOLATE</b> for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.           |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>DO NOT USE WATER, FOAM OR CO2.</b>                                                                                                                                                         |
| Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment(i.e. building, cargo hold etc...).    |
| Use DRY sand, graphite powder, dry sodium chloride based extinguishers, G-1" or Met-L-X" powder.                                                                                              |
| Confining and smothering metal fires is preferable rather than applying water.                                                                                                                |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| <b>Fire involving Tanks or Car/Trailer Loads</b>                                                                                                                                              |
| If impossible to extinguish, protect surroundings and allow fire to burn itself out.                                                                                                          |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| <b>ELIMINATE</b> all ignition sources (no smoking, flares, sparks or flame in immediate area).                                                                                                |
| Do not touch or walk through spilled material.                                                                                                                                                |
| Stop leak if without risk.                                                                                                                                                                    |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care.                                                                                                                                                                  |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |
| Remove contaminated clothing and shoes.                                                                                                                                                       |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                                  |
| Keep victim warm and quiet.                                                                                                                                                                   |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                                    |
| <b>171-LOW TO MODERATE HAZARD SUBSTANCES</b>                                                                                                                                                  |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                                      |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                                      |
| Some may burn but none ignite readily.                                                                                                                                                        |



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| Containers may explode when heated.                                                                                                                                                           |
| Some may be transported hot.                                                                                                                                                                  |
| <b>HEALTH</b>                                                                                                                                                                                 |
| Inhalation of material may be harmful.                                                                                                                                                        |
| Contact may cause burns to skin and eyes.                                                                                                                                                     |
| Inhalation of Asbestos dust may have a damaging effect on the lungs.                                                                                                                          |
| Fire may produce irritating, corrosive and/or toxic fumes.                                                                                                                                    |
| Runoff from fire control may cause pollution.                                                                                                                                                 |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                          |
| <b>CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.</b> |
| Spill or leak area should be isolated immediately for at least 10 m in all directions.                                                                                                        |
| Keep unauthorized personnel away.                                                                                                                                                             |
| Stay upwind.                                                                                                                                                                                  |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                                    |
| Wear positive pressure self contained breathing apparatus (SCBA).                                                                                                                             |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                                 |
| <b>EVACUATION</b>                                                                                                                                                                             |
| <b>FIRE</b>                                                                                                                                                                                   |
| If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 m (½ mile) in all directions; also, consider initial evacuation for 800 m (½ mile) in all directions.                  |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                                     |
| <b>FIRE</b>                                                                                                                                                                                   |
| <b>Small Fires:</b> Dry chemical, CO2, water spray or regular foam.                                                                                                                           |
| <b>Large Fires:</b> Water spray, fog or regular foam.                                                                                                                                         |
| Move container from fire area if you can do it without risk.                                                                                                                                  |
| Do not scatter spilled material with high pressure water streams.                                                                                                                             |
| Dike fire control water for later disposal.                                                                                                                                                   |
| <b>Fire involving Tanks</b>                                                                                                                                                                   |
| Cool containers with flooding quantities of water until well after fire is out.                                                                                                               |
| Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.                                                                                            |
| <b>ALWAYS</b> stay away from the ends of tanks.                                                                                                                                               |
| <b>SPILL OR LEAK</b>                                                                                                                                                                          |
| Do not touch or walk through spilled material.                                                                                                                                                |
| Stop leak if you can do it without risk.                                                                                                                                                      |
| Prevent dust cloud.                                                                                                                                                                           |
| Avoid inhalation of asbestos dust.                                                                                                                                                            |
| <b>Small Dry Spills:</b> With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.                                                       |
| <b>Small Spills:</b> Take up with sand or other noncombustible absorbent material and place into containers for later disposal.                                                               |
| <b>Large Spills:</b> Dike far ahead of liquid spill for later disposal.                                                                                                                       |
| Cover powder spill with plastic sheet or tarp to minimize spreading.                                                                                                                          |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                            |
| <b>FIRST AID</b>                                                                                                                                                                              |
| Move victim to fresh air.                                                                                                                                                                     |
| Call emergency medical care.                                                                                                                                                                  |
| Apply artificial respiration if victim is not breathing.                                                                                                                                      |
| Administer oxygen if breathing is difficult.                                                                                                                                                  |

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| Remove contaminated clothing and shoes.                                                                                                                                                |
| In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.                                                                           |
| Ensure that attending medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                                             |
| <b>172-GALLIUM or MERCURY</b>                                                                                                                                                          |
| <b>POTENTIAL HAZARDS</b>                                                                                                                                                               |
| <b>HEALTH</b>                                                                                                                                                                          |
| Inhalation of vapours or contact with substance will result in contamination and potential harmful effects.                                                                            |
| Fire will produce irritating, corrosive and/or toxic gases.                                                                                                                            |
| <b>FIRE OR EXPLOSION</b>                                                                                                                                                               |
| Material itself does not burn but may produce corrosive and/or poisonous fumes upon heating.                                                                                           |
| Runoff may pollute waterways.                                                                                                                                                          |
| <b>PUBLIC SAFETY</b>                                                                                                                                                                   |
| CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. |
| Spill or leak area should be isolated immediately for at least 10 m in all directions.                                                                                                 |
| Stay upwind.                                                                                                                                                                           |
| Keep unauthorized personnel away.                                                                                                                                                      |
| <b>PROTECTIVE CLOTHING</b>                                                                                                                                                             |
| Wear positive pressure self-contained breathing apparatus (SCBA).                                                                                                                      |
| Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.                                               |
| Structural firefighters' protective clothing will provide limited protection.                                                                                                          |
| <b>EVACUATION</b>                                                                                                                                                                      |
| <b>Large Spill</b>                                                                                                                                                                     |
| Consider initial downwind evacuation for at least 100 m.                                                                                                                               |
| <b>Fire</b>                                                                                                                                                                            |
| When any large container is involved in a fire, consider initial evacuation for 500 m in all directions.                                                                               |
| <b>EMERGENCY RESPONSE</b>                                                                                                                                                              |
| <b>FIRE</b>                                                                                                                                                                            |
| Use extinguishing agent suitable for type of surrounding fire.                                                                                                                         |
| Material itself does not burn or burns with extreme difficulty.                                                                                                                        |
| Do not direct water at the heated metal.                                                                                                                                               |
| Runoff may pollute waterways.                                                                                                                                                          |
| <b>SPILL OR LEAK</b>                                                                                                                                                                   |
| Do not touch or walk through spilled material.                                                                                                                                         |
| Do not touch damaged containers, packages or spilled material unless wearing appropriate protective clothing.                                                                          |
| Stop leak if you can do it without risk.                                                                                                                                               |
| Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                     |
| Do not use steel or aluminium tools or equipment.                                                                                                                                      |
| Cover with earth, sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.                                                      |
| For mercury, use a mercury spill kit.                                                                                                                                                  |
| Mercury spill areas may be subsequently treated with calcium sulphide or with sodium thiosulphate wash to neutralize any residual mercury.                                             |
| <b>FIRST AID</b>                                                                                                                                                                       |