# Department Hazardous Chemical Information

| Name | Characteristics | Hazard | Symptoms | First aid | Handling instructions |
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| CHLORINE | GREENISH-YELLOW GAS WITH PUNGENT, IRRITATING ODOR, IN EITHER LIQUID OR GASEOUS STATE. IT IS NON-FLAMMABLE AND NON-EXPLOSIVE. | SKIN IRRITANT EYE IRRITANT RESPIRATORY CONGESTION. SEVERE EXPOSURE WILL CAUSE DEATH. CONCENTRATIONS OF 1000 PPM FOR 1/2 HOUR TO 1 HOUR CAN BE FATAL. | 1. INHALATION - CAUSES COUGHING, RECOMPONT IN THE CHEST, HOARSE COUGH, DIZZINESS, AND VOMITING.<br>2. EYE CONTACT - CAUSES BURNING AND IRRITATION.<br>3. SKIN CONTACT - CAUSES LOCAL IRRITATION AND/OR SEVERE BURNS. | 1. INHALATION - REMOVE NEW AIRTAT QUICKLY FROM AREA. IF BREATHING AIR OR ARTIFICIAL RESPIRATION IF NOT BREATHING OR HAVING DIFFICULTY IN BREATHING. KEEP WARM AND LYING DOWN IF POSSIBLE. GIVE MAN 1-2 GLASSES OF MILK TO SETTLE STOMACH. BRONCHIAL SPLINTER MILK WILL ASSIST BREATHING.<br>2. EYE CONTACT - RINSE WITH WATER (LIKE RAIN) FOR 15 MINUTES.<br>3. SKIN CONTACT - WASH WITH WATER. | WEAR CHEMICAL CHLORINE TANK CARS USE GAS MASK AND GLOVES. |
| DIPHENYL | WHITE FLAKES OR SOLID OFF-WHITE MASS AT ROOM TEMPERATURE; WATER-WHITE TO STRAW-COLORED LIQUID WHEN ABOVE 69°C.; MEDICINAL SWEET ODOR. | EYE IRRITANT AND RESPIRATORY IRRITANT, ESPECIALLY VAPORS FROM HOT MOLTEN FORM. NORMAL LEVEL IN WORKING AREA SHOULD NOT BE ABOVE 1 mg/M³ AIR (ABOUT 0.2 PPM). CAN ABSORB THROUGH SKIN. WILL CAUSE PHENOMAT BURN WHEN MOLTEN. | 1. EYE CONTACT - CAUSES BURNING & IRRITATION.<br>2. INHALATION - CAUSES COUGHING, CHOKING.<br>3. SKIN CONTACT - CAUSES IRRITATION AND/OR BURNS. | 1. EYE CONTACT - RINSE WITH WATER FOR 15 MINUTES. REPORT TO DISPENSARY.<br>2. REMOVE PERSON FROM AREA OF VAPORS. USUALLY THIS IS ADEQUATE. GIVE ADDITIONAL BREATHING AIR IF NEEDED.<br>3. SKIN - FLUSH WITH WATER. | DIPHENYL IS HANDLED MOLTEN IN DEPT. 846. WEAR GLOVES AND GOGGLES WHEN UNLOADING TANK CAR. AVOID BREATHING FUMES. |
| FERRIC CHLORIDE | BLACK, FINE GRANULAR SOLID | DUST IS EYE IRRITANT AND RESPIRATORY IRRITANT; VERY LOW PROBABILITY OF BECOMING A HAZARD. | IRRITATION, COUGHING | FLUSH EYES WITH WATER, GET OUT OF DUST. | STORE IN CLOSED CONTAINERS BECAUSE IT ABSORBS WATER AND RED-RAGS RUST. WET FERRIC CHLORIDE WILL NOT CATALYZE DIPHENYL CHLORINATION. |
| LIME | WHITE ALKALINE POWDER, GENERATES HEAT IN CONTACT WITH WATER (SLAKING). | CORROSIVE; EYE DAMAGE; INHALATION IRRITANT. | UNPROTECTED SKIN TO SKIN RESULTS IN SOLID FORM OR SOLUTION. EYE DAMAGE - DUST OR SOLUTION CAN CAUSE IRRITATION OF THE EYES. INHALATION IRRITATION OF MUCOUS MEMBRANES. | FLUSH IN RESULTING FROM BODY IS MOST IMPORTANT. FLUSH WITH LARGE QUANTITIES OF WATER. REMOVE CLOTHING INCLUDING SHOES IF NECESSARY. IF EYES ARE AFFECTED, FLUSH WITH WATER FOR 15 MINUTES. IF LARGE QUANTITIES ARE INHALED, DRINK LARGE QUANTITIES OF WATER. CALL DOCTOR IF IRRITATION PERSISTS OR EYES ARE AFFECTED. | WEAR RUBBER GLOVES AND GOGGLES. |
| PUMICE | LIGHT-WEIGHT, BROWN, POROUS, INERT GRANULAR SOLID. | EYE IRRITANT (PHYSICAL, NOT CHEMICAL) | EYE IRRITATION AS FROM DUST | FLUSH EYES WITH WATER. | WEAR EYE PROTECTION |
| DIATOMACEOUS EARTH | INERT, TAN-COLORED POWDER. | EYE IRRITANT (PHYSICAL, NOT CHEMICAL) | EYE IRRITATION AS FROM DUST. | FLUSH EYES WITH WATER. | WEAR EYE PROTECTION |
| NITROGEN GAS ($N_2$) | COLORLESS GAS | NON-TOXIC; WITHOUT IS AN INERT GAS. BREATHING ONLY NITROGEN WILL CAUSE ASPHYXIATION (DEATH). | DIZZINESS, HEADACHES, LOSS OF CONSCIOUSNESS, FINALLY DEATH. | REMOVE TO FRESH AIR. ADMINISTER OXYGEN OR BREATHING AIR IF NECESSARY. | AVOID BREATHING GAS, PROVIDE GOOD VENTILATION. |
| TRICHLOROBENZENE (TCB) | WATER-WHITE LIQUID; STRONG ORGANIC CHEMICAL ODOR. | SKIN IRRITANT. INHALATION IRRITANT. | SKIN IRRITATION. CAUSES LOSS OF HAIR ON EXPERIMENTAL ANIMALS. DEPRESSED RESPIRATION WHEN FUMES ARE INHALED. | WASH SKIN WITH SOAP AND WATER; CHANGE CLOTHES IF CONTAMINATED. GET OUT OF VAPORS. | WEAR GLOVES AND EYE PROTECTION. |
| TRI-TETRA CHLOROBENZENE (TTCB) | WATER-WHITE LIQUID; STRONG ORGANIC CHEMICAL ODOR. | SKIN IRRITANT. INHALATION IRRITANT. | SKIN IRRITATION CAUSES LOSS OF HAIR ON EXPERIMENTAL ANIMALS. DEPRESSED RESPIRATION WHEN FUMES ARE INHALED. | WASH SKIN WITH SOAP AND WATER; CHANGE CLOTHES IF CONTAMINATED. GET OUT OF VAPORS. | WEAR GLOVES AND EYE PROTECTION. |
| BUTYLPHENYL PHENYL ETHER | VISCOUS LIQUID | SKIN IRRITANT; CAN CAUSE SEVERE RASH. | SKIN IRRITATION OF CONTACTED AREA IF NOT REMOVED FROM SKIN. | WASH IMMEDIATELY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. IF SYMPTOMS ARE ALREADY PRESENT, REPORT TO DISPENSARY. | WEAR RUBBER GLOVES, EYE PROTECTION. |
| VINYL EPOXIDE | VISCOUS LIQUID | SKIN IRRITANT; CAN CAUSE SEVERE RASH. | SKIN IRRITATION OF CONTACTED AREA IF NOT REMOVED FROM SKIN. | WASH IMMEDIATELY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. IF SYMPTOMS ARE ALREADY PRESENT, REPORT TO DISPENSARY. | WEAR RUBBER GLOVES, EYE PROTECTION. |

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| **INTERMEDIATES** | **NO PRODUCTS:** | | | | |
| CRUDE AROCLORS | PURPLISH TO BLACK OILY LIQUID, TETRALIN-LIKE ODOR, USUALLY DARKENED BUT; CONTAINS LESS THAN 0.05% DISSOLVED FERRIC CHLORIDE. | INHALATION IRRITANT (NOT VAPORS). THERMAL BURNS. | COUGHING, IRRITATING TO BREATHE. REDNESS AS FOR ANY OTHER THERMAL BURN. | GET OUT OF VAPORS. WASH AREA TO REMOVE AROCLOR AND TREAT AS ANY OTHER BURN. | WEAR RUBBER GLOVES, EYE PROTECTION. |
| HYDROGEN CHLORIDE (HCL) | COLORLESS GAS; HIGHLY CORROSIVE; NON-FLAMMABLE. READILY DISSOLVES IN WATER TO FORM AN ACID. | IRRITANT TO EYES AND RESPIRATORY TRACT. CHEMICAL BURNS TO SKIN. THIS ACID CORRODES WITH MANY METALS AND RELEASES EXPLOSIVE HYDROGEN GAS. | IRRITATION TO EYES, SKIN AND RESPIRATORY. | FLUSH EYES WITH WATER FOR 15 MINUTES. FLUSH CONTACTED AREA WITH WATER. REPORT TO DISPENSARY. | AVOID BREATHING HCl VAPORS OR CONTACT WITH SKIN. USE SCOTT AIR PAK WHEN IN CONTAMINATED AREA. |
| **PCB MIXTURES AROCLOR:** | | | | | |
| BCB-1209 DAPACTOR #3 AROCLOR 1232 | WATER-WHITE OILY LIQUIDS; CHLORINATED BIPHENYLS AND SOME UNREACTED BIPHENYL. FLASH POINT LOWER THAN THOSE PRODUCTS THAT ARE CHLORINATED BIPHENYLS ONLY. | INHALATION IRRITANT (NOT VAPORS). THERMAL BURNS. | COUGHING, IRRITATING TO BREATHE. REDNESS AS FOR ANY OTHER THERMAL BURN. | GET OUT OF VAPORS. WASH AREA TO REMOVE AROCLOR AND TREAT AS ANY OTHER BURN. | WEAR RUBBER GLOVES, EYE PROTECTION. |
| AROCLORS (#15) 1016 1242 1248 1254 1260 1262 | WATER-WHITE OILY LIQUIDS; CHLORINATED BIPHENYLS; VISCOSITY INCREASES WITH DEGREE OF CHLORINATION. | INHALATION IRRITANT (NOT VAPORS) THERMAL BURNS. | COUGHING, IRRITATING TO BREATHE. REDNESS AS FOR ANY OTHER THERMAL BURN. | GET OUT OF VAPORS. WASH AREA TO REMOVE AROCLOR AND TREAT AS ANY OTHER BURN. | WEAR RUBBER GLOVES, EYE PROTECTION. |
| THERMINOL FR-0 FR-LOW TEMP., INERTEEN 54P01XJ (#16) | WATER-WHITE OILY LIQUID; BLENDS OF AROCLORS AND CHLOROBENZENES | INHALATION IRRITANT (NOT VAPORS) THERMAL BURNS. SOMEWHAT MORE IRRITATING THAN AROCLORS BECAUSE CHLOROBENZENES ARE PRESENT. | COUGHING, IRRITATING TO BREATHE. REDNESS AS FOR ANY OTHER THERMAL BURN. | GET OUT OF VAPORS. WASH AREA TO REMOVE AROCLOR AND TREAT AS ANY OTHER BURN. | WEAR RUBBER GLOVES. EYE PROTECTION. |
| PYRANOL A1383P PYRANOL A1383HP INERTEEN EPO INERTEEN 70/30 | WATER-WHITE OILY LIQUID; BLENDS OF AROCLORS, CHLOROBENZENES, AND EPOXEN GLYCIDYL PHENYL ETHER OR UNOX EPOXIDE. | INHALATION IRRITANT (NOT VAPORS) THERMAL BURNS. SOMEWHAT MORE IRRITATING THAN #15 OR #16 (ABOVE) BECAUSE THE CHLORINE SCAVENGER IS PRESENT. | COUGHING, IRRITATING TO BREATHE. REDNESS AS FOR ANY OTHER THERMAL BURN. | GET OUT OF VAPORS. WASH AREA TO REMOVE AROCLOR AND TREAT AS ANY OTHER BURN. | WEAR RUBBER GLOVES, EYE PROTECTION. |
| INERTEEN 54P01 ON | WATER-WHITE OILY LIQUID; BLEND OF AROCLOR AND GLYCIDYL PHENYL EPOXEN. | INHALATION IRRITANT (NOT VAPORS) THERMAL BURNS. SOMEWHAT MORE IRRITATING THAN AROCLORS BECAUSE THE CHLORIDE SCAVENGER IS PRESENT. | COUGHING, IRRITATING TO BREATHE. REDNESS AS FOR ANY OTHER THERMAL BURN. | GET OUT OF VAPORS. WASH AREA TO REMOVE AROCLOR AND TREAT AS ANY OTHER BURN. | WEAR RUBBER GLOVES, EYE PROTECTION. |
| NONFLAM | BROWN TO BLACK VISCOUS LIQUID; HANDLED AT TEMPERATURES UP TO 300°C. A SOLID AT AMBIENT TEMPERATURES. | VAPORS ARE A RESPIRATORY IRRITANT; THERMAL BURN HAZARD. | COUGHING, IRRITATION; THERMAL BURN. | GET OUT OF VAPORS; TREAT AS ANY OTHER BURN. | USE VENTILATION WHEN AROUND VAPORS; USE GLOVES, EYE PROTECTION & HANDLE WITH EXTREME CARE WHEN MOLTEN. |

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