



INTERNAL  
CORRESPONDENCE

UNION CARBIDE CORPORATION P O BOX 8004, SOUTH CHARLESTON, WV 25303  
SILICONES AND URETHANE INTERMEDIATES  
SOUTH CHARLESTON PLANT

Subject: EP Contacts

Date: August 24, 1982

Organization/Dept: Environmental Protection

Area:

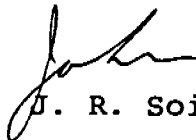
Operating/Distribution  
Department Heads  
R. N. Bates  
J. L. Worstell

Subject: 1981 WVAPCC Air Emission Survey

Attached is a copy of the data for your area that was submitted to the West Virginia Air Pollution Control Commission for the 1981 Air Emission Survey. Please review your packages and inform me of any errors. Only the white sheets will become part of the public record. The blue sheets are stamped BUSINESS-CONFIDENTIAL and will not be available for public inspection. This data should be placed in your unit files along with the supporting data which you used to complete the forms.

Also attached are several tables which summarize the data contained in the survey. Also attached is a time/cost estimate for completing the survey.

Very truly yours,

  
J. R. Soice

JRS:co

Attachments  
(To EP Contacts Only)

UCC 098608

ATTACHMENT A

CHEMICALS FROM 1981 WVAPCC SURVEY

|                                  | M#/Year |              |
|----------------------------------|---------|--------------|
| Acetone                          | 550     |              |
| Methyl Acetate                   | 439     |              |
| Methanol                         | 335     |              |
| Isopropanol                      | 319     | 64% of Total |
| Propylene Oxide                  | 258     |              |
| Vinyl Acetate                    | 151     | 80% of Total |
| Vinyl Methyl Ether               | 53.9    |              |
| Butyl Chloride                   | 46.9    |              |
| Ethylene Oxide                   | 42.5    |              |
| Pentane                          | 39.6    |              |
| Ethanol                          | 37.3    |              |
| Fluorocarbon 113                 | 34.8    | 90% of Total |
| Isopropenyl Acetate              | 31.5    |              |
| Ethane                           | 23.8    |              |
| Acetaldehyde                     | 20.5    |              |
| Acrylonitrile                    | 16.7    |              |
| Methyl Ethyl Ketone              | 16.6    |              |
| Ammonia                          | 15.0    | 95% of Total |
| Ethyl Acetate                    | 11.2    |              |
| Dimethylethanolamine             | 8.7     |              |
| Isopropyl Acetate                | 8.2     |              |
| Diethyl Ketone                   | 7.3     |              |
| Isopropyl Ether                  | 5.3     |              |
| 2-Ethylbutyraldehyde             | 5.3     |              |
| n-Butanol                        | 5.3     |              |
| 3-Pentyl Formate                 | 5.2     |              |
| Propionaldehyde                  | 5.1     |              |
| Mesityl Oxide                    | 4.9     |              |
| Acetic Acid                      | 4.5     |              |
| Methyl Capped A-PEG-350 (Y-6044) | 3.5     |              |
| Dimethylacetal                   | 3.4     |              |
| 1-Pentene                        | 2.7     |              |
| n-Propanol                       | 2.5     |              |
| Dimethylamine                    | 2.4     |              |
| n-Butyl Acetate                  | 2.2     |              |
| Isobutyl Acetate                 | 2.1     |              |
| Acetic Anhydride                 | 2.0     |              |
| 2,4-Pentanedione                 | 1.7     |              |
| Allyl Alcohol                    | 1.7     |              |
| Styrene                          | 1.5     |              |
| Butane                           | 1.5     | 99% of Total |
| Tetraethylorthosilicate          | 1.5     |              |
| Methylacetylene                  | 1.27    |              |
| Gasoline, Unleaded Regular       | 1.26    |              |
| Residues (DAA/MO)                | 1.24    |              |
| n-Propyl Acetate                 | 1.23    |              |
| Diacetone Alcohol                | 1.17    |              |
| Diisobuty Ketone                 | 1.12    |              |

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| <u>CHEMICAL</u>                        | <u>M#/Year</u> |
|----------------------------------------|----------------|
| Ethylenediamine                        | 1.00           |
| Isobutylene                            | 0.95           |
| Butyraldehyde                          | 0.93           |
| CELLOSOLVE Solvent                     | 0.91           |
| Butyl CELLOSOLVE                       | 0.90           |
| CELLOSOLVE Acetate                     | 0.89           |
| DOWTHERM A                             | 0.84           |
| Isobutanol                             | 0.71           |
| Propylamine                            | 0.66           |
| Methoxypropylamine (MOPA)              | 0.64           |
| Methyl CELLOSOLVE                      | 0.60           |
| Diethylamine                           | 0.59           |
| Butyl Acrylate                         | 0.58           |
| NIAX Catalyst A-99                     | 0.54           |
| Toluene                                | 0.51           |
| Gasoline, Leaded Regular               | 0.48           |
| Diethylethanolamine                    | 0.45           |
| Propionic Acid                         | 0.39           |
| Ethyl Silicate 40                      | 0.36           |
| Butyl Esters, Mixed (UCAR Solvent MBE) | 0.34           |
| 2-Ethylbutyric Acid                    | 0.34           |
| Isobutyraldehyde                       | 0.32           |
| 2-Butyl Formate                        | 0.28           |
| Hexaldehyde                            | 0.26           |
| C <sub>6</sub> Olefins                 | 0.19           |
| 2-Ethylhexyl Acrylate                  | 0.18           |
| Butyl CELLOSOLVE Acetate               | 0.15           |
| Hexanol                                | 0.15           |
| Methylamine                            | 0.14           |
| Vinyl Chloride                         | 0.14           |
| Methylmethacrylate                     | 0.12           |
| Amyl Acetate                           | 0.12           |
| PM-5882                                | 0.11           |
| Ethyl Silicate Condensed               | 0.11           |
| Diacetone Alcohol Tails                | 0.11           |
| Dimethylaminopropylamine               | 0.082          |
| CARBITOL Solvent                       | 0.070          |
| Dimethylaminoethoxyethanol             | 0.070          |
| 2-Ethylhexanol                         | 0.066          |
| Ethylene Glycol                        | 0.065          |
| Methyl Isobutyl Ketone                 | 0.065          |
| Benzene                                | 0.061          |
| Methyl Amyl Alcohol                    | 0.060          |
| Triethylamine                          | 0.060          |
| Crotonaldehyde                         | 0.050          |
| N-Methylethanolamine                   | 0.050          |
| PM-3224                                | 0.050          |
| Allyl Chloride                         | 0.042          |

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| <u>CHEMICAL</u>                          | <u>M#/Year</u> |
|------------------------------------------|----------------|
| Cyclohexanone                            | 0.040          |
| Methyldiethanolamine                     | 0.040          |
| NIAX Catalyst C-166                      | 0.040          |
| NIAX Polyol 11-34                        | 0.040          |
| Diacetone Alcohol Fractions              | 0.030          |
| NIAX Catalyst A-1                        | 0.028          |
| PROPASOL Solvent P                       | 0.028          |
| Allylmethacrylate (AMA)                  | 0.026          |
| Allylmethoxytriglycol (AMTG)             | 0.025          |
| Gasoline                                 | 0.025          |
| Methyl CELLOSOLVE Acetate                | 0.025          |
| Butyl CARBITOL Acetate                   | 0.020          |
| NIAX Polyols                             | 0.020          |
| PM-3640                                  | 0.020          |
| NIAX Catalyst A-30                       | 0.018          |
| Mesityl Oxide Fractions                  | 8.015          |
| TERGITOL NP-9                            | 0.015          |
| Butyl CARBITOL                           | 0.011          |
| NIAX Catalyst A-107                      | 0.011          |
| CARBITOL Acetate                         | 0.010          |
| Formic Acid                              | 0.010          |
| Hexylene Glycol                          | 0.010          |
| Tetrahydrobenzaldehyde                   | 0.010          |
| Trimethylamine                           | 0.008          |
| #1 Diesel Fuel                           | 0.007          |
| Diethylene Glycol                        | 0.006          |
| Ethyl Acrylate                           | 0.006          |
| #2 Diesel Fuel                           | 0.005          |
| Ethyl Silicate ESP-Y                     | 0.005          |
| NIAX Catalyst A-6                        | 0.005          |
| PM-5454                                  | 0.005          |
| Methylpentanaldehyde                     | 0.004          |
| NIAX Catalyst A-10                       | 0.004          |
| 2-Ethylhexoic Acid                       | 0.003          |
| Formaldehyde                             | 0.003          |
| PROPASOL Solvent B                       | 0.003          |
| NIAX Catalyst A-133                      | 0.002          |
| NIAX Catalyst C-105                      | 0.002          |
| Chloroform                               | 0.001          |
| NIAX Catalyst A-5                        | 0.001          |
| NIAX Catalyst A-127                      | 0.001          |
| NIAX Catalyst A-124                      | 0.001          |
| NIAX Catalyst C-152                      | 0.001          |
| Epoxy Resin ERL-2258, BAKELITE (Epoxide) | 0.0004         |
| Ethylhexyl Tallate                       | 0.0003         |
| Triethylene Glycol                       | 0.0003         |
| PM-5834                                  | 0.0001         |
| Ethyl Chloride                           | -0-            |
| Hydrogen Chloride                        | -0-            |
| Silicon Tetrachloride                    | -0-            |
| TOTAL:                                   | 2,556.126      |

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| <u>CHEMICAL</u>                | <u>M#/Year</u> |
|--------------------------------|----------------|
| Nitrogen Oxides (Fuel Burning) | 3,095          |
| Sulfur Oxides (Fuel Burning)   | 2,887          |
| Hydrocarbons (Fuel Burning)    | 148            |
| Particulate (Fuel Burning)     | 166            |
| Carbon Monoxide (Fuel Burning) | 121            |
| Particulate (Process)          | 74             |
| Carbon Monoxide (Process)      | 1.5            |