# Toxic Emissions Data Inventory (TEDI)
# Annual Report for 2003

Prepared by
Office of Environmental Assessment
Air Quality Assessment Division

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# Introduction

In 1991, the Comprehensive Toxic Air Pollutant Emission Control Program was established by LDEQ, to regulate major sources of toxic air pollutants (TAPS) under Chapter 51 of the Louisiana Administrative Code Title 33, Part III (LAC 33:III.Chapter 51). Regulated sources include existing, new, and modified sources that emit, or have the potential to emit, 10 or more tons per year of any single toxic air pollutant, or 25 or more tons per year of any combination of TEDI pollutants (see Table 1). The program also applies to facilities that were originally characterized as major sources, but have achieved minor source status through the reduction of emissions or the potential to emit.

In accordance with LAC 33:III.Chapter 51, the owner or operator of any stationary source subject to the above requirements shall submit a completed TEDI report to the LDEQ on or before July 1 of each year. Each report shall identify the quantity of listed toxic air pollutant(s) emitted for the previous year. For example, the TAPS emitted for 2003 were reported to LDEQ on or before July 1, 2004 and are summarized in this year's report.

# Benefits and Limitations

## Benefits

TEDI is an extraordinary database that is unique to Louisiana. This database takes the Clean Air Act one step further, requiring major sources to report toxic chemicals released into the air. The data is then presented yearly in report format, thereby providing public access to the types of toxic air pollutants being released from local facilities. The information can be given to customers via data requests and can provide information at a local, state and regional level. Responsible use of data can help the public to address fears and concerns, assess risks, and work with industry and the government to form a healthier environment.

## Limitations

TEDI data is a key source of environmental information. However, there are some limitations to be considered when using this data. Since the program was implemented in 1991, no TEDI data is available prior to that year. TEDI data only comes from major or "once major" sources, so releases from some facilities may not be captured. Another limitation is that some facilities report estimated data; variations due to measuring techniques produce varying results. TEDI is also a dynamic database; facilities can submit corrections at any time when better emission calculations are available. These limitations should be taken into account when considering data accuracy and comparability. TEDI data contains only parish location for each facility. Therefore, specific information on the exact location of emission points must be obtained and correlated to TEDI information prior to entering the data into the National Emissions Inventory and for air toxics modeling.

# TEDI Data

For reporting year 2003, the TEDI Program collected data from more than 276 facilities. Approximately 51 million pounds of Toxic Air Pollutants (TAPS) were reported to TEDI. Methanol was the most prevalent TAP, for which 13,197,903 pounds was reported. Ascension Parish emitted the most TAPS, and CF Industries in Ascension Parish, was the top TAPS emitting facility with 6,073815 pounds.

| 2003 Parish Ranking by Total TEDI Releases (in Pounds) | | | | | | | |
|---|---|---|---|---|---|---|---|
| RANK | PARISH | # FACILITIES | TOTAL | RANK | PARISH | # FACILITIES | TOTAL |
| 1 | Ascension | 17 | 9,793,291 | 26 | Evangeline | 2 | 208,341 |
| 2 | Calcasieu | 23 | 6,547,275 | 27 | Terrebonne | 8 | 186,173 |
| 3 | De Soto | 4 | 5,228,163 | 28 | Livingston | 4 | 185,153 |
| 4 | East Baton Rouge | 18 | 4,397,642 | 29 | Orleans | 5 | 179,291 |
| 5 | Morehouse | 1 | 2,215,045 | 30 | Tangipahoa | 2 | 170,170 |
| 6 | St. James | 6 | 2,137,799 | 31 | Sabine | 2 | 169,906 |
| 7 | Washington | 2 | 2,094,562 | 32 | Webster | 3 | 128,609 |
| 8 | St. Charles | 14 | 2,052,238 | 33 | Pointe Coupee | 2 | 123,144 |
| 9 | Beauregard | 3 | 2,008,100 | 34 | Allen | 1 | 96,386 |
| 10 | Ouachita | 10 | 1,593,999 | 35 | Winn | 2 | 92,855 |
| 11 | St. Bernard | 5 | 1,458,343 | 36 | Lafourche | 7 | 92,137 |
| 12 | Jackson | 1 | 1,413,124 | 37 | St. Tammany | 2 | 64,432 |
| 13 | Rapides | 3 | 1,351,481 | 38 | Lincoln | 6 | 58,073 |
| 14 | Iberville | 9 | 1,159764 | 39 | Grant | 2 | 46,776 |
| 15 | Natchitoches | 3 | 1,003,716 | 40 | St. Martin | 4 | 40,483 |
| 16 | Caddo | 10 | 990,653 | 41 | Cameron | 8 | 33,977 |
| 17 | West Baton Rouge | 9 | 680,851 | 42 | Vernon | 1 | 21,488 |
| 18 | West Feliciana | 1 | 671,259 | 43 | Union | 1 | 11,802 |
| 19 | St. John the Baptist | 6 | 626,548 | 44 | Richland | 1 | 9,880 |
| 20 | St. Mary | 15 | 614,203 | 45 | Vermilion | 8 | 3,964 |
| 21 | Plaquemines | 11 | 484,913 | 46 | Bienville | 1 | 586 |
| 22 | Jefferson | 16 | 438,680 | 47 | Jefferson Davis | 1 | 558 |
| 23 | St. Landry | 3 | 253,168 | 48 | LaSalle | 1 | 427 |
| 24 | Assumption | 4 | 232,125 | 49 | Bossier | 1 | 0 |
| 25 | Iberia | 7 | 211,943 | 50* | Tensas | 1 | 0 |

**Figure 1 -2002 Parish Ranking by Total TEDI Releases (in Pounds).** * There are 64 parishes in Louisiana. Only those parishes containing TEDI facilities that report releases for this category are listed above.

A downward trend in TEDI Emissions is observed from 1991-2003. Overall, TAPS have decreased by 63% since the inception of the TEDI program in 1991. From 2002 to 2003, TAPS decreased by 3% (1.7 million pounds).

| TEDI Emissions | | |
|---|---|---|
| Reporting Year | TAPS Reported | % Decrease from 1991 |
| 1991 | 142,370,572 | -- |
| 1992 | 121,200,852 | 14.9 |
| 1993 | 112,877,922 | 20.7 |
| 1994 | 114,842,523 | 19.3 |
| 1995 | 108,059,509 | 24.1 |
| 1996 | 104,510,875 | 26.6 |
| 1997 | 88,269,704 | 38 |
| 1998 | 80,928,264 | 43.1 |
| 1999 | 67,649,487 | 52.5 |
| 2000 | 58,759,772 | 58.7 |
| 2001 | 49,814,411 | 65 |
| 2002 | 53,275,732 | 62.5 |
| 2003 | 51,583,496 | 63.8 |

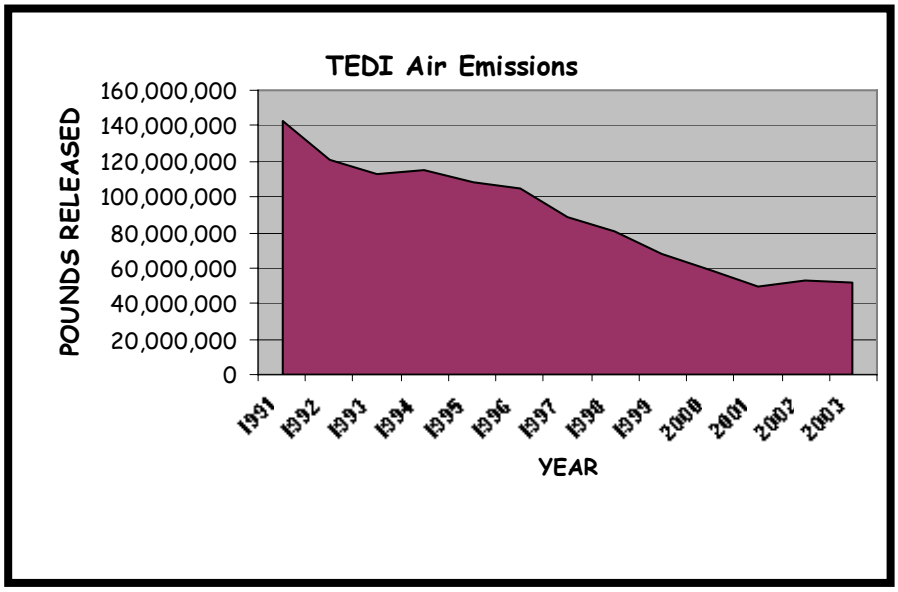


**Figure 2 -TEDI Emissions.** The figures above display a downward trend in total TAPS statewide since the inception of the TEDI program in 1991. For 2002, the 8% increase (four million pounds) in TAPS is attributed to an increase in ammonia production.

## TEDI Chemicals by Class

TEDI chemicals (i.e., toxic air pollutants or TAPS) can be placed in one of three classes. Class I chemicals are known and probable human carcinogens; this class accounts for 3% of the total TAPS reported. Class II chemicals (12%) are *suspected* human carcinogens and known or suspected human reproductive toxins. Class III chemicals, acute and chronic (non-carcinogenic) toxins; represent the majority of TAPS (85%).

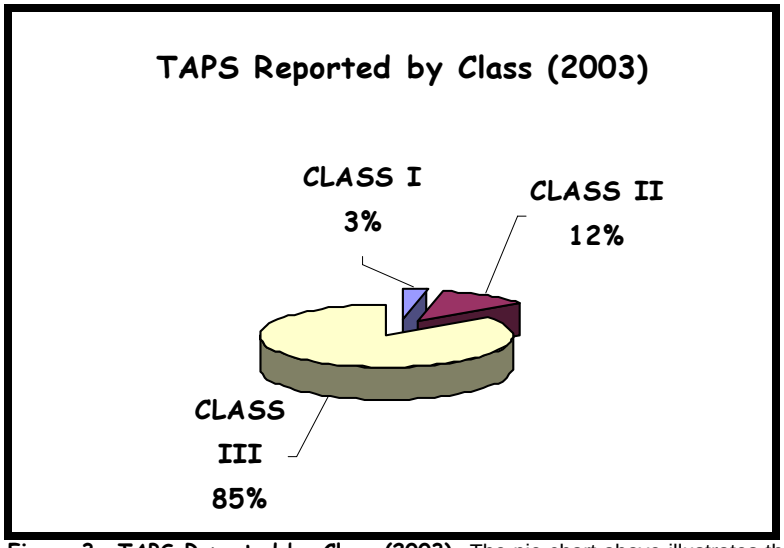


**Figure 3 -TAPS Reported by Class (2003).** The pie chart above illustrates the percentages of chemicals reported to each TEDI Class of Pollutants. Class I accounts for 3%; Class II and Class III are 12% and 85%, respectively.

From 1991-2003, there was a 64% decrease in the total TAPS released (90,764,990 pounds). Class I Carcinogens decreased by 79% (5,995,932 pounds); Class II decreased by 70% (13,868,163 pounds); and Class III decreased by 70,900,895 pounds (62%) since the inception of the TEDI program.

Since Reporting Year 2002, Class I chemicals have increased by 12% (196,997 pounds), while Class II and Class III have decreased by 13% (910,708 pounds) and 2% (978,525 pounds), respectively. Total TAPS have also decreased since 2002 (4% or 2,342,953 pounds).

| TAPS Totals by TEDI Chemical Class (in Pounds) | | | | |
|---|---|---|---|---|
| **Reporting Year** | **Class I** | **Class II** | **Class III** | **Total** |
| **1991** | 7,617,090 | 19,944,193 | 114,787,203 | 142,348,486 |
| **1992** | 6,171,423 | 19,829,332 | 94,305,368 | 120,306,123 |
| **1993** | 4,853,423 | 19,493,244 | 87,539,011 | 111,885,678 |
| **1994** | 4,244,180 | 19,540,357 | 89,864,668 | 113,649,605 |
| **1995** | 4,095,580 | 17,237,750 | 85,395,105 | 106,728,435 |
| **1996** | 4,030,516 | 16,437,071 | 82,970,483 | 103,438,070 |
| **1997** | 4,007,131 | 10,024,287 | 73,351,604 | 87,383,022 |
| **1998** | 2,691,405 | 8,739,886 | 68,531,959 | 79,963,250 |
| **1999** | 2,125,520 | 6,680,599 | 58,053,348 | 66,859,467 |
| **2000** | 1,886,922 | 6,810,669 | 50,062,181 | 58,759,772 |
| **2001** | 1,528,062 | 6,307,478 | 41,978,873 | 49,814,411 |
| **2002** | 1,424,161 | 6,986,738 | 44,864,833 | 53,926,449 |
| **2003** | 1,621,158 | 6,076,030 | 43,886,308 | 51,583,496 |

**Figure 4 -TAPS Totals by TEDI Chemical Class (in Pounds).** The table shows the total pounds emitted for TEDI Class I, II and III Chemicals.

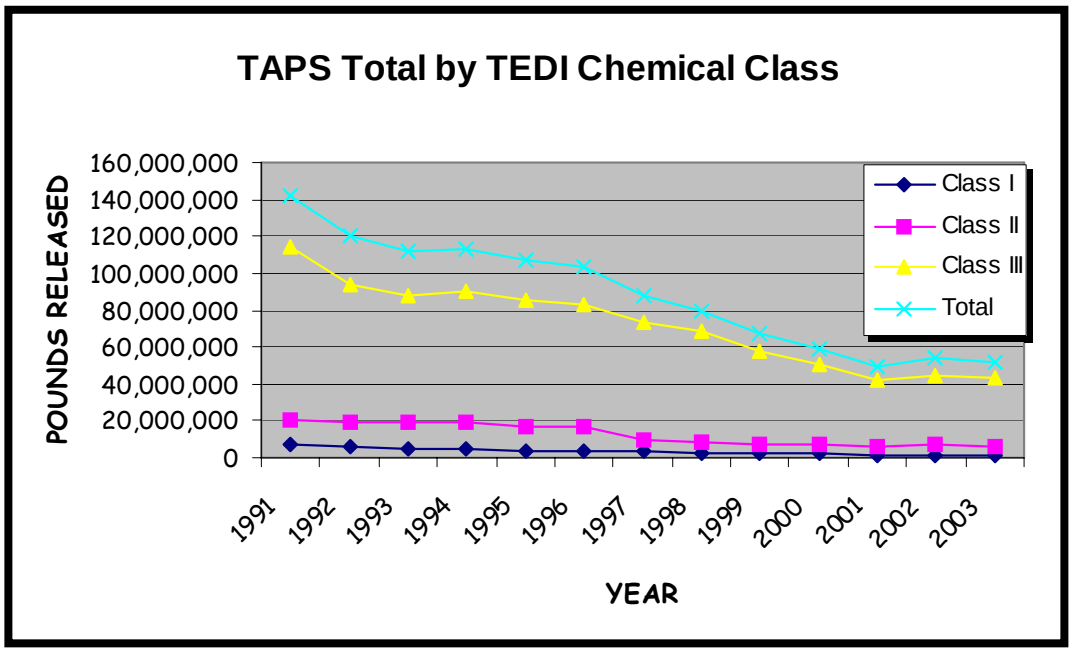


**Figure 5 -TAPS Total by TEDI Chemical Class.** This graph illustrates comparative data for the different TEDI chemical classes.

## Benzene Emissions

Benzene emissions comprise the largest amount of Class I emissions, and are included in the Class I totals, and the Total Chemicals figures. This chemical is of special concern because of its known cancer-causing abilities. Since 1991, benzene releases have decreased by 89% (5,917,698 pounds), as have its dominance of the Class I Chemical category.

| Benzene vs. Class I Totals | | | |
|---|---|---|---|
| RY* | Class I (in pounds) | Benzene (in pounds) | % Benzene |
| 1991 | 7,617,090 | 6,653,094 | 87% |
| 1992 | 6,171,423 | 4,934,080 | 80% |
| 1993 | 4,853,423 | 3,819,786 | 79% |
| 1994 | 4,244,180 | 3,355,639 | 79% |
| 1995 | 4,095,580 | 3,271,013 | 80% |
| 1996 | 4,030,516 | 3,023,722 | 75% |
| 1997 | 4,007,131 | 2,740,856 | 68% |
| 1998 | 2,691,405 | 1,709,267 | 64% |
| 1999 | 2,125,520 | 1,271,444 | 60% |
| 2000 | 1,886,922 | 978,021 | 52% |
| 2001 | 1,528,062 | 703,884 | 46% |
| 2002 | 1,424,161 | 650,717 | 46% |
| 2003 | 1,621,158 | 735,396 | 55% |

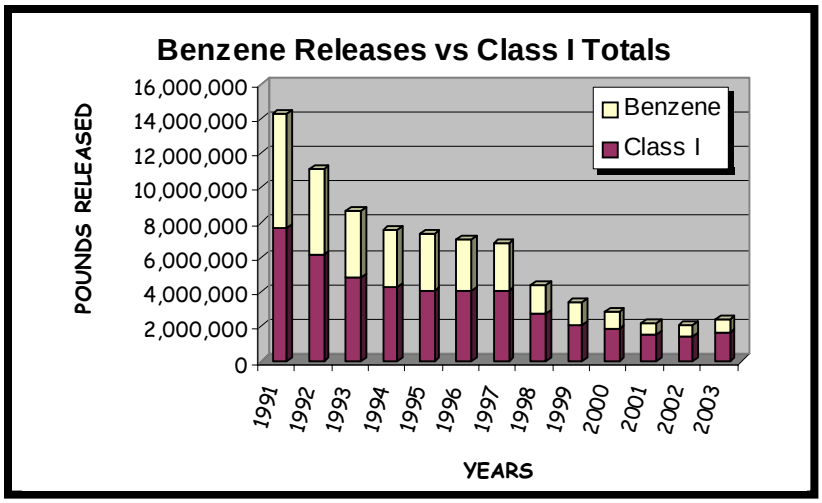


**Figure 6 - Benzene vs. Class I Totals.** Pounds emitted for TEDI Class I chemicals and benzene is shown in the table above.
* RY = Reporting Year

## Table 1: Toxic Air Pollutant List

| CHEMICAL | CLASS | CAS# | SUPPLEMENTAL TAPs |
|---|---|---|---|
| 1,1,1-TRICHLOROETHANE | 3 | 71-55-6 | NO |
| 1,1,2-TRICHLOROETHANE | 2 | 79-00-5 | NO |
| 1,1-DIMETHYL HYDRAZINE | 2 | 57-14-7 | YES |
| 1,2,4-TRICHLOROBENZENE | 2 | 120-82-1 | YES |
| 1,2-DIBROMO-3-CHLOROPROPANE | 2 | 96-12-8 | YES |
| 1,2-DIBROMOETHANE | 1 | 106-93-4 | NO |
| 1,2-DICHLOROETHANE | 2 | 107-06-2 | NO |
| 1,2-DICHLOROPROPANE | 2 | 78-87-5 | NO |
| 1,2-DIPHENYLHYDRAZINE | 2 | 122-66-7 | YES |
| 1,2-EPOXYBUTANE | 3 | 106-88-7 | YES |
| 1,2-PROPYLENEIMINE | 2 | 75-55-8 | YES |
| 1,3-BUTADIENE | 2 | 106-99-0 | NO |
| 1,3-DICHLOROPROPYLENE | 2 | 542-75-6 | NO |
| 1,3-PROPANE SULTONE | 2 | 1120-71-4 | YES |
| 1,4-DICHLOROBENZENE | 2 | 106-46-7 | NO |
| 1,4-DIOXANE | 2 | 123-91-1 | NO |
| 2,2,4-TRIMETHYLPENTANE | 3 | 540-84-1 | YES |
| 2,4,5-TRICHLOROPHENOL | 3 | 95-95-4 | YES |
| 2,4,6-TRICHLOROPHENOL | 2 | 88-06-2 | YES |
| 2,4-D,SALTS AND ESTERS | 2 | 94-75-7 | YES |
| 2,4-DINITROPHENOL | 2 | 51-28-5 | YES |
| 2,4-DINITROTOLUENE | 2 | 121-14-2 | NO |
| 2,4-TOLUENE DIAMINE | 2 | 95-80-7 | YES |
| 2,6-DINITROTOLUENE | 2 | 606-20-2 | NO |
| 2-ACETYLAMINOFLUORENE | 2 | 53-96-3 | YES |
| 2-CHLOROACETOPHENONE | 2 | 532-27-4 | YES |
| 2-NITROPROPANE | 2 | 79-46-9 | NO |
| 3,3'-DICHLOROBENZIDENE | 2 | 91-94-1 | YES |
| 3,3'-DIMETHOXYBENZIDENE | 2 | 119-90-4 | YES |
| 3,3'-DIMETHYLBENZIDENE | 2 | 119-93-7 | YES |
| 4,4'-METHYLENE BIS(2-CHLOROANILINE) | 2 | 101-14-4 | YES |
| 4,4'-METHYLENE DIANILINE | 2 | 101-77-9 | YES |
| 4,6-DINITRO-o-CRESOL, AND SALTS | 2 | 534-52-1 | YES |
| 4-AMINOBIPHENYL | 1 | 92-67-1 | YES |
| 4-NITROBIPHENYL | 2 | 92-93-3 | YES |
| 4-NITROPHENOL | 3 | 100-02-7 | YES |
| ACETALDEHYDE | 2 | 75-07-0 | NO |
| ACETAMIDE | 2 | 60-35-5 | YES |
| ACETONITRILE | 2 | 75-05-8 | NO |

| CHEMICAL | CLASS | CAS# | SUPPLEMENTAL TAPs |
|---|---|---|---|
| ACETOPHENONE | 3 | 98-86-2 | YES |
| ACROLEIN | 2 | 107-02-8 | NO |
| ACRYLAMIDE | 2 | 79-06-1 | NO |
| ACRYLIC ACID | 3 | 79-10-7 | NO |
| ACRYLONITRILE | 1 | 107-13-1 | NO |
| ALLYL CHLORIDE | 2 | 107-05-1 | NO |
| AMMONIA | 3 | 7664-41-7 | NO |
| ANILINE | 2 | 62-53-3 | NO |
| ANTIMONY | 2 | 7440-36-0 | NO |
| ARSENIC | 1 | 7440-38-2 | NO |
| ASBESTOS | 1 | 1332-21-4 | NO |
| BARIUM | 2 | 7440-39-3 | NO |
| BENZENE | 1 | 71-43-2 | NO |
| BENZIDINE | 1 | 92-87-5 | YES |
| BENZOTRICHLORIDE | 2 | 98-07-7 | YES |
| BENZYL CHLORIDE | 2 | 100-44-7 | YES |
| BERYLLIUM | 1 | 7440-41-7 | NO |
| BIPHENYL | 2 | 92-52-4 | NO |
| BIS (2-CHLOROETHYL) ETHER | 1 | 111-44-4 | NO |
| BIS(2-ETHYLHEXYL)PHTHALATE | 2 | 117-81-7 | YES |
| BIS(CHLOROMETHYL)ETHER | 1 | 542-88-1 | YES |
| BROMOFORM | 2 | 75-25-2 | YES |
| CADMIUM | 1 | 7440-43-9 | NO |
| CALCIUM CYANAMIDE | 3 | 156-62-7 | YES |
| CAPROLACTAM | 2 | 105-60-2 | YES |
| CAPTAN | 2 | 133-06-2 | YES |
| CARBARYL | 2 | 63-25-2 | YES |
| CARBON DISULFIDE | 2 | 75-15-0 | NO |
| CARBON TETRACHLORIDE | 2 | 56-23-5 | NO |
| CARBONYL SULFIDE | 3 | 463-58-1 | NO |
| CATECHOL | 3 | 120-80-9 | YES |
| CHLORAMBEN | 3 | 133-90-4 | YES |
| CHLORDANE | 2 | 57-74-9 | YES |
| CHLORINATED DIBENZO FURANS | 2 | 51207-31-9 | NO |
| CHLORINATED DIBENZO-P-DIOXINS | 2 | 3268-87-9 | NO |
| CHLORINE | 3 | 7782-50-5 | NO |
| CHLORINE DIOXIDE | 2 | 10049-04-4 | NO |
| CHLOROACETIC ACID | 2 | 79-11-8 | YES |
| CHLOROBENZENE | 2 | 108-90-7 | NO |
| CHLOROBENZILATE | 2 | 510-15-6 | YES |
| CHLOROETHANE | 2 | 75-00-3 | NO |
| CHLOROFORM | 2 | 67-66-3 | NO |

| CHEMICAL | CLASS | CAS# | SUPPLEMENTAL TAPs |
|---|---|---|---|
| CHLOROMETHANE | 2 | 74-87-3 | NO |
| CHLOROMETHYL METHYL ETHER | 1 | 107-30-2 | YES |
| CHLOROPRENE | 2 | 126-99-8 | NO |
| CHROMIUM | 1 | 7440-47-3 | NO |
| COBALT COMPOUNDS | 2 | 7440-48-4 | YES |
| COKE OVEN EMISSIONS | 1 | NO-NO | YES |
| COPPER | 2 | 7440-50-8 | NO |
| CRESOL | 3 | 1319-77-3 | NO |
| CUMENE | 3 | 98-82-8 | NO |
| CYANIDE COMPOUNDS | 3 | 57-12-5 | YES |
| DDE | 2 | 72-55-9 | YES |
| DIAMINOTOLUENE | 2 | 25376-45-8 | NO |
| DIAZOMETHANE | 3 | 334-88-3 | YES |
| DIBUTYL PHTHALATE | 2 | 84-74-2 | NO |
| DICHLOROMETHANE | 2 | 75-09-2 | NO |
| DICHLORVOS | 2 | 62-73-7 | YES |
| DIETHANOLAMINE | 3 | 111-42-2 | YES |
| DIETHYL SULFATE | 1 | 64-67-5 | YES |
| DIMETHYL AMINOAZOBENZENE | 2 | 60-11-7 | YES |
| DIMETHYL FORMAMIDE | 2 | 68-12-2 | YES |
| DIMETHYL PHTHALATE | 2 | 131-11-3 | YES |
| DIMETHYL SULFATE | 1 | 77-78-1 | YES |
| EPICHLOROHYDRIN | 1 | 106-89-8 | NO |
| ETHYL ACRYLATE | 2 | 140-88-5 | NO |
| ETHYL BENZENE | 2 | 100-41-4 | NO |
| ETHYL CARBAMATE | 2 | 51-79-6 | YES |
| ETHYLENE GLYCOL | 3 | 107-21-1 | NO |
| ETHYLENE IMINE | 2 | 151-56-4 | YES |
| ETHYLENE OXIDE | 1 | 75-21-8 | NO |
| ETHYLENE THIOUREA | 2 | 96-45-7 | YES |
| ETHYLIDENE DICHLORIDE | 2 | 75-34-3 | YES |
| FINE MINERAL FIBERS | 1 | 7440-21-3 | YES |
| FORMALDEHYDE | 1 | 50-00-0 | NO |
| GLYCOL ETHERS | 2 | 109-86-4 | NO |
| GLYCOL ETHERS (MISC.) | 2 | 112-35-6 | YES |
| HEPTACHLOR | 2 | 76-44-8 | YES |
| HEXACHLORO-1,3-BUTADIENE | 2 | 87-68-3 | NO |
| HEXACHLOROBENZENE | 2 | 118-74-1 | NO |
| HEXACHLOROCYCLOPENTADIENE | 3 | 77-47-4 | YES |
| HEXACHLOROETHANE | 2 | 67-72-1 | NO |
| HEXAMETHYL PHOSPHORAMIDE | 2 | 680-31-9 | YES |
| HEXAMETHYLENE-1,6-DIISOCYANATE | 3 | 822-06-0 | YES |

| CHEMICAL | CLASS | CAS# | SUPPLEMENTAL TAPs |
|---|---|---|---|
| HYDRAZINE | 2 | 302-01-2 | NO |
| HYDROCHLORIC ACID | 3 | 7647-01-0 | NO |
| HYDROGEN CYANIDE | 3 | 74-90-8 | NO |
| HYDROGEN FLUORIDE | 3 | 7664-39-3 | NO |
| HYDROGEN SULFIDE | 3 | 7783-06-4 | NO |
| HYDROQUINONE | 3 | 123-31-9 | YES |
| ISOPHORONE | 2 | 78-59-1 | YES |
| LEAD COMPOUNDS | 2 | 7439-92-1 | YES |
| LINDANE, (ALL ISOMERS) | 2 | 58-89-9 | YES |
| MALEIC ANHYDRIDE | 3 | 108-31-6 | NO |
| MANGANESE | 2 | 7439-96-5 | NO |
| MERCURY | 2 | 7439-97-6 | NO |
| METHANOL | 3 | 67-56-1 | NO |
| METHOXYCHLOR | 2 | 72-43-5 | YES |
| METHYL BROMIDE | 3 | 74-83-9 | YES |
| METHYL ETHYL KETONE | 3 | 78-93-3 | NO |
| METHYL HYDRAZINE | 2 | 60-34-4 | YES |
| METHYL IODIDE | 2 | 74-88-4 | YES |
| METHYL ISOBUTYL KETONE | 3 | 108-10-1 | NO |
| METHYL ISOCYANATE | 2 | 624-83-9 | YES |
| METHYL METHACRYLATE | 3 | 80-62-6 | NO |
| METHYL TERT BUTYL ETHER | 3 | 1634-04-4 | YES |
| METHYLENE DIPHENYL DIISOCYANATE | 3 | 101-68-8 | YES |
| N,N-DIETHYL ANILINE | 3 | 91-66-7 | YES |
| N,N-DIMETHYL ANILINE | 3 | 121-69-7 | YES |
| N,N-DIMETHYL CARBAMOYL CHLORIDE | 1 | 79-44-7 | YES |
| N-BUTYL ALCOHOL | 3 | 71-36-3 | NO |
| N-HEXANE | 3 | 110-54-3 | NO |
| N-NITROSO-N-METHYLUREA | 2 | 684-93-5 | YES |
| N-NITROSODIMETHYLAMINE | 1 | 62-75-9 | YES |
| N-NITROSOMORPHOLINE | 2 | 59-89-2 | YES |
| NAPHTHALENE AND METHYLNAPHTHALENES | 2 | 91-20-3 | NO |
| NICKEL | 1 | 7440-02-0 | NO |
| NITRIC ACID | 3 | 7697-37-2 | NO |
| NITROBENZENE | 2 | 98-95-3 | NO |
| PARATHION | 2 | 56-38-2 | YES |
| PENTACHLORONITROBENZENE | 2 | 82-68-8 | YES |
| PENTACHLOROPHENOL | 2 | 87-86-5 | YES |
| PHENOL | 2 | 108-95-2 | NO |

| CHEMICAL | CLASS | CAS# | SUPPLEMENTAL TAPs |
|---|---|---|---|
| PHOSGENE | 3 | 75-44-5 | NO |
| PHOSPHINE | 3 | 7803-51-2 | YES |
| PHOSPHORUS | 3 | 7723-14-0 | YES |
| PHTHALIC ANHYDRIDE | 3 | 85-44-9 | NO |
| POLYCHLORINATED BIPHENYLS | 2 | 1336-36-3 | YES |
| POLYNUCLEAR AROMATIC HYDROCARBONS | 2 | 206-44-0 | NO |
| PROPIONALDEHYDE | 3 | 123-38-6 | NO |
| PROPOXUR | 3 | 114-26-1 | YES |
| PROPYLENE OXIDE | 1 | 75-56-9 | NO |
| PYRIDINE | 3 | 110-86-1 | NO |
| QUINOLINE | 3 | 91-22-5 | YES |
| QUINONE | 3 | 106-51-4 | YES |
| SELENIUM | 2 | 7782-49-2 | NO |
| STYRENE | 2 | 100-42-5 | NO |
| STYRENE OXIDE | 1 | 96-09-3 | YES |
| SULFURIC ACID | 3 | 7664-93-9 | NO |
| TETRACHLOROETHANE | 2 | 79-34-5 | NO |
| TETRACHLOROETHYLENE | 2 | 127-18-4 | NO |
| TITANIUM TETRACHLORIDE | 3 | 7550-45-0 | YES |
| TOLUENE | 3 | 108-88-3 | NO |
| TOLUENE-2,4-DIISOCYANATE | 2 | 584-84-9 | NO |
| TOLUENE-2,6-DIISOCYANATE | 2 | 91-08-7 | NO |
| TOXAPHENE | 2 | 8001-35-2 | YES |
| TRICHLOROETHYLENE | 2 | 79-01-6 | NO |
| TRIETHYLAMINE | 3 | 121-44-8 | YES |
| TRIFLURALIN | 2 | 1582-09-8 | YES |
| VINYL ACETATE | 3 | 108-05-4 | NO |
| VINYL BROMIDE | 2 | 593-60-2 | YES |
| VINYL CHLORIDE | 1 | 75-01-4 | NO |
| VINYLIDINE CHLORIDE | 2 | 75-35-4 | NO |
| XYLENE | 2 | 1330-20-7 | NO |
| ZINC | 3 | 7440-66-6 | NO |
| beta-PROPRIOLACTONE | 2 | 57-57-8 | YES |
| o-ANISIDINE | 2 | 90-04-0 | YES |
| o-TOLUIDINE | 2 | 95-53-4 | YES |
| p-PHENYLENEDIAMINE | 3 | 106-50-3 | YES |