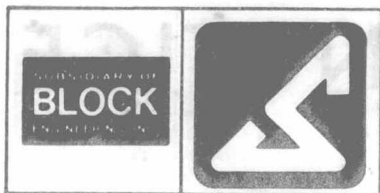


THE **SADTLER**

**STANDARD  
SPECTRA**





**SADTLER RESEARCH LABORATORIES, INC.**

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Molecular Formula  
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# TOTAL SPECTRA MOLECULAR FORMULA INDEX

**REPLACEMENT**

CREATIVE CHEMISTS SINCE 1874

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10/72

## SADTLER STANDARD SPECTRA

### 1972 TOTAL SPECTRA MOLECULAR FORMULA INDEX

This index is a listing of the Sadtler Standard Spectra, infrared prism, and also contains the infrared grating, and UV, NMR and DTA numbers for those compounds which have been run by these methods. Entries of the compounds contained in the 8,000 infrared spectra published by the Coblenz Society are also included, these entries are indicated by a double asterisk (\*\*) preceding the name.

In appropriately labelled columns, the spectrum numbers assigned to the following total publications are shown:

- 43,000 Sadtler Standard Prism Spectra
- 26,000 Sadtler Standard Grating Spectra
- 32,000 Sadtler Ultraviolet Spectra
- 14,666 Sadtler Nuclear Magnetic Resonance Spectra
  - 700 Varian High Resolution NMR Spectra
  - 300 JEOL High Resolution NMR Spectra
- 2,000 Sadtler DTA thermograms

In the NMR column of this index, the Varian numbers are preceded by the letter V and the JEOL numbers either by the symbol \* which represents 100 MHz spectra, or the letter F (F-19 spectra) or J (60 MHz spectra).

The inclusion of all available spectra reference numbers for each compound is valuable to those requiring complete spectral data for identification or all data for a particular compound since it eliminates the consulting of individual indexes.

The Hill system has been employed in listing the formulas, with carbon always first followed by hydrogen, if present, and other elements in alphabetical sequence. Compounds may then be located from their molecular formula by scanning the index in categorically ascending order of C, H and each of the other elements heading the columns in alphabetical sequence on each page. The final column of the formula, labelled "M", indicates the presence of metallic elements. A single metallic element present is represented by its symbol (NA, FE, etc.); multiple metallic elements are not symbolically identified, but are represented by X2 (for 2), X3 (for 3), etc.

For compounds having the same molecular formula, the sequential arrangement is alphabetical according to "parent compound" name.

Due to the use of computerized data, certain limitations are imposed in symbolism and appear in the index printout as shown on the following page:



## Deviation from standard punctuation

|    |            |   |                                                                                 |
|----|------------|---|---------------------------------------------------------------------------------|
| /  | (slash)    | - | Read as parenthesis, bracket, or brace                                          |
| □  | (lozenge)  | - | Read as indication of superscripting<br>(See last of the examples on this page) |
| PR |            | - | Read as "prime". Therefore 2PR is read as 2'.                                   |
| *  | (asterisk) | - | Also read as "prime"                                                            |

Lack of provision for Greek letters, super or subscripts (except as noted above) or lower case letters causes the following changes from normal notation:

|       |   |                                                                                      |
|-------|---|--------------------------------------------------------------------------------------|
| A     | - | Read as a or $\alpha$                                                                |
| B     | - | Read as b or $\beta$                                                                 |
| G     | - | Read as g or $\gamma$                                                                |
| D     | - | Read as d or $\delta$                                                                |
| O     | - | Read as o, ortho or oxygen                                                           |
| M     | - | Read as m or meta                                                                    |
| N     | - | Read as normal or nitrogen                                                           |
| P     | - | Read as p, para or phosphorus                                                        |
| S     | - | Read as s (symmetrical) or sulfur                                                    |
| D & L | - | Still retain their original significance when used in conjunction with carbohydrates |

A few examples will help to illustrate the variations to be encountered:

### Chemical Abstracts System

s-Triazine,4-amino-6-(p-bromoanilino)-1,2-dihydro-2,2-dimethyl-,

Benz[a]anthracene-7,12-dione

Chryseno[6,5-d]oxazole

Spiro[cyclopropane-1,9'-fluorene],2-acetyl-,

Tricyclo[3.3.1.1<sup>3,7</sup>]decane

### Sadtler Index

S-TRIAZINE,4-AMINO-6-/P-BROMOANILINO/-1,2-DIHYDRO-2,2-DIMETHYL-,

BENZ/A/ANTHRACENE-7,12-DIONE

CHRYSENO/6,5-D/OXAZOLE

SPIRO/CYCLOPROPANE-1,9-PR-FLUORENE/,2-ACETYL-,

or

SPIRO/CYCLOPROPANE-1,9\*-FLUORENE/,2-ACETYL-,

TRICYCLO/3.3.1.1<sup>3,7</sup>/DECANE

The various media in which some spectra were run may be designated at the end of the compound name by the following abbreviations or by the complete word:

|   |    |                      |
|---|----|----------------------|
| B | -- | Between Salts (Neat) |
| C | -- | Cell                 |
| F | -- | Film                 |
| G | -- | Gas                  |
| K | -- | KBr                  |
| M | -- | Mull                 |
| S | -- | Solution             |

Identical entries in the Molecular Formula Index showing the same name and serial number, are a computer-generated result of cross-referencing in the Chemical Classes Index.

# IMPORTANT PUBLISHER'S NOTICE

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AND

Standard  
Total Spectra  
Molecular Formula  
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C<sub>14</sub> - Z

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THIS INDEX REPLACES ONLY THE MOLECULAR FORMULA SECTIONS OF THE TOTAL SPECTRA INDEX. ALL OTHER SECTIONS OF THE TOTAL SPECTRA INDEX ARE CORRECT AS ORIGINALLY SHIPPED AND SHOULD NOT BE REPLACED.

| NAME                                   | C | H | Br | Cl | F | I | N | O | P | S | SI | M | PRISM | GRATING | U.V. | N.M.R. | D.T.A. |
|----------------------------------------|---|---|----|----|---|---|---|---|---|---|----|---|-------|---------|------|--------|--------|
| METHANE, BROMOTRICHORO-,               | 1 |   |    | 1  | 3 |   |   |   |   |   |    |   | 1845  |         |      |        |        |
| METHANE, BROMOTRIFLUORO-,              | 1 |   |    | 1  |   | 3 |   |   |   |   |    |   | 2478  |         |      |        |        |
| METHANE, CHLORODIBROMOFLUORO-,         | 1 |   |    | 2  | 1 | 1 |   |   |   |   |    |   | 1920  |         |      |        |        |
| METHANE, DIBROMODICHLORO-,             | 1 |   |    | 2  | 2 |   |   |   |   |   |    |   | 3204  |         |      |        |        |
| METHANE, DIBROMODIFLUORO-,             | 1 |   |    | 2  |   | 2 |   |   |   |   |    |   | 6523  |         |      |        |        |
| METHANE, FLUOROTRIBROMO-,              | 1 |   |    | 3  |   | 1 |   |   |   |   |    |   | 1921  |         |      |        |        |
| CARBON TETRABROMIDE                    | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 6047  |         |      |        |        |
| CARBON TETRABROMIDE                    | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 6048  |         |      |        |        |
| CARBON TETRABROMIDE                    | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 13900 |         |      |        |        |
| METHANE, TETRABROMO-,                  | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 13900 |         |      |        |        |
| FREON 13                               | 1 |   |    |    | 1 | 3 |   |   |   |   |    |   | 4083  |         |      |        |        |
| METHANE, CHLOROTRIFLUORO-,             | 1 |   |    |    | 1 | 3 |   |   |   |   |    |   | 4083  |         |      |        |        |
| CHLOROSULFONYL ISOCYANATE              | 1 |   |    |    | 1 |   | 1 | 3 | 1 |   |    |   | 35737 |         |      |        |        |
| ISOCYANIC ACID, ANHYDRIDE WITH         | 1 |   |    |    | 1 |   | 1 | 3 | 1 |   |    |   | 35737 |         |      |        |        |
| CHLOROSULFONIC ACID                    |   |   |    |    |   |   |   |   |   |   |    |   |       |         |      |        |        |
| METHANE, DICHLORODIFLUORO-,            | 1 |   |    | 2  | 2 |   |   |   |   |   |    |   | 30865 | 6837    |      |        |        |
| PHOSGENE                               | 1 |   |    | 2  |   |   |   | 1 |   |   |    |   | 948   |         |      |        |        |
| PHOSGENE                               | 1 |   |    | 2  |   |   |   | 1 |   |   |    |   | 2858  |         |      |        |        |
| THIOCARBONYL CHLORIDE GAS              | 1 |   |    | 2  |   |   |   |   |   | 1 |    |   | 6609  |         |      |        |        |
| THIOCARBONYL CHLORIDE LIQUID           | 1 |   |    | 2  |   |   |   |   |   | 1 |    |   | 6610  |         |      |        |        |
| THIOPHOSGENE GAS                       | 1 |   |    | 2  |   |   |   |   |   | 1 |    |   | 6609  |         |      |        |        |
| THIOPHOSGENE LIQUID                    | 1 |   |    | 2  |   |   |   |   |   | 1 |    |   | 6610  |         |      |        |        |
| CHLOROFORM-D                           | 1 |   |    | 3  |   |   |   |   |   |   |    | D | 7499  |         |      |        |        |
| CHLOROFORM-D                           | 1 |   |    | 3  |   |   |   |   |   |   |    | D | 7500  |         |      |        |        |
| METHANE, FLUOROTRICHORO-,              | 1 |   |    | 3  | 1 |   |   |   |   |   |    |   | 1113  |         |      |        |        |
| CHLOROPICRIN                           | 1 |   |    | 3  |   |   |   | 1 | 2 |   |    |   | 11589 |         |      |        |        |
| METHANE, TRICHLORONITRO-,              | 1 |   |    | 3  |   |   |   | 1 | 2 |   |    |   | 11589 |         |      |        |        |
| CARBON TETRACHLORIDE                   | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 2210  | 302     |      |        |        |
| CARBON TETRACHLORIDE                   | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 6999  |         |      |        |        |
| CARBON TETRACHLORIDE                   | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 6469  |         |      |        |        |
| CARBON TETRACHLORIDE                   | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 6468  |         |      |        |        |
| CARBON TETRACHLORIDE                   | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 6470  |         |      |        |        |
| CARBON TETRACHLORIDE /VAPOR/           | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 6521  | 302     |      |        |        |
| METHANE, TETRACHLORO-,                 | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 2210  | 302     |      |        |        |
| METHANE, TETRACHLORO-, /VAPOR/         | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 6521  | 302     |      |        |        |
| METHANESULFONYL CHLORIDE, TRICHLORO-,  | 1 |   |    | 4  |   |   |   | 2 | 1 |   |    |   | 14535 |         |      |        |        |
| METHANESULFENYL CHLORIDE, TRI-CHLORO-, | 1 |   |    | 4  |   |   |   |   |   | 1 |    |   | 6740  |         |      |        |        |
| METHANE, IODOTRIFLUORO-,               | 1 |   |    |    | 3 | 1 |   |   |   |   |    |   | 2479  |         |      |        |        |
| CARBON TETRAFLUORIDE                   | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 4082  |         |      |        |        |
| FREON 14                               | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 4082  |         |      |        |        |
| METHANE, TETRAFLUORO-,                 | 1 |   |    | 4  |   |   |   |   |   |   |    |   | 4082  |         |      |        |        |
| POTASSIUM CYANIDE                      | 1 |   |    |    |   |   |   |   |   |   | K  |   | 8471  |         |      |        |        |
| SILVER CYANATE                         | 1 |   |    |    |   |   |   | 1 |   |   | AG |   | 567   |         |      |        |        |
| POTASSIUM CYANATE                      | 1 |   |    |    |   |   |   | 1 |   |   | K  |   | 5718  |         |      |        |        |
| SODIUM CYANATE                         | 1 |   |    |    |   |   |   | 1 |   |   | NA |   | 2726  |         |      |        |        |
| METHANE-D3, NITRO-,                    | 1 |   |    |    |   |   |   | 1 | 2 |   | D  |   | 36549 | 14539   |      |        |        |
| POTASSIUM THIOCYANATE                  | 1 |   |    |    |   |   |   | 1 |   |   | K  |   | 489   |         |      |        |        |
| POTASSIUM THIOCYANATE                  | 1 |   |    |    |   |   |   | 1 |   |   | K  |   | 657   |         |      |        |        |
| SODIUM THIOCYANATE                     | 1 |   |    |    |   |   |   | 1 |   |   | NA |   | 488   |         |      |        |        |
| METHANE, TETRANITRO-,                  | 1 |   |    |    | 4 |   |   | 8 |   |   |    |   | 6408  |         |      |        |        |
| METHANE, TETRANITRO-,                  | 1 |   |    |    | 4 |   |   | 8 |   |   |    |   | 2492  |         |      |        |        |
| METHANOL-D4                            | 1 |   |    |    |   |   |   |   |   |   | D  |   | 38538 | 17522   |      |        |        |
| CARBON MONOXIDE                        | 1 |   |    |    |   |   |   | 1 |   |   |    |   | 1142  |         |      |        |        |
| CARBON DIOXIDE                         | 1 |   |    |    |   |   |   | 2 |   |   |    |   | 1924  |         |      |        |        |
| BARIUM CARBONATE                       | 1 |   |    |    |   |   |   | 3 |   |   | BA |   | 13461 |         |      |        |        |
| BARIUM CARBONATE                       | 1 |   |    |    |   |   |   | 3 |   |   | BA |   | 506   |         |      |        |        |
| BERYLLIUM CARBONATE                    | 1 |   |    |    |   |   |   | 3 |   |   | BE |   | 1436  |         |      |        |        |
| CALCITE                                | 1 |   |    |    |   |   |   | 3 |   |   | CA |   | 1739  |         |      |        |        |
| CALCITE /POWDERED/                     | 1 |   |    |    |   |   |   | 3 |   |   | CA |   | 4659  |         |      |        |        |
| CALCIUM CARBONATE                      | 1 |   |    |    |   |   |   | 3 |   |   | CA |   | 4659  |         |      |        |        |
| CALCIUM CARBONATE                      | 1 |   |    |    |   |   |   | 3 |   |   | CA |   | 507   |         |      |        |        |
| CALCIUM CARBONATE                      | 1 |   |    |    |   |   |   | 3 |   |   | CA |   | 1739  |         |      |        |        |
| CALCIUM CARBONATE                      | 1 |   |    |    |   |   |   | 3 |   |   | CA |   | 1755  |         |      |        |        |
| CALCIUM CARBONATE, PRECIPITATED        | 1 |   |    |    |   |   |   | 3 |   |   | CA |   | 4660  |         |      |        |        |
| CHALK, PRECIPITATED                    | 1 |   |    |    |   |   |   | 3 |   |   | CA |   | 4660  |         |      |        |        |
| PRECIPITATED CHALK                     | 1 |   |    |    |   |   |   | 3 |   |   | CA |   | 4660  |         |      |        |        |
| COBALTOUS CARBONATE                    | 1 |   |    |    |   |   |   | 3 |   |   | CO |   | 508   |         |      |        |        |
| COPPER /II/ CARBONATE, BASIC           | 1 |   |    |    |   |   |   | 3 |   |   | CU |   | 1725  |         |      |        |        |
| IRON /II/ CARBONATE                    | 1 |   |    |    |   |   |   | 3 |   |   | FE |   | 1761  |         |      |        |        |
| SIDERITE                               | 1 |   |    |    |   |   |   | 3 |   |   | FE |   | 1761  |         |      |        |        |
| POTASSIUM CARBONATE                    | 1 |   |    |    |   |   |   | 3 |   |   | K  |   | 504   |         |      |        |        |
| LITHIUM CARBONATE                      | 1 |   |    |    |   |   |   | 3 |   |   | LI |   | 502   |         |      |        |        |
| MAGNESITE                              | 1 |   |    |    |   |   |   | 3 |   |   | MG |   | 1763  |         |      |        |        |
| MAGNESIUM CARBONATE                    | 1 |   |    |    |   |   |   | 3 |   |   | MG |   | 1763  |         |      |        |        |
| MAGNESIUM CARBONATE, BASIC, TRIHYDRATE | 1 |   |    |    |   |   |   | 3 |   |   | MG |   | 1740  |         |      |        |        |
| MANGANESE /II/ CARBONATE               | 1 |   |    |    |   |   |   | 3 |   |   | MN |   | 1754  |         |      |        |        |
| RHODOCHROSITE                          | 1 |   |    |    |   |   |   | 3 |   |   | MN |   | 1754  |         |      |        |        |
| CRYSTAL CARBONATE                      | 1 |   |    |    |   |   |   | 3 |   |   | NA |   | 8897  |         |      |        |        |
| SODIUM CARBONATE                       | 1 |   |    |    |   |   |   | 3 |   |   | NA |   | 503   |         |      |        |        |
| SODIUM CARBONATE                       | 1 |   |    |    |   |   |   | 3 |   |   | NA |   | 2208  |         |      |        |        |
| SODIUM CARBONATE, ANHYDROUS K          | 1 |   |    |    |   |   |   | 3 |   |   | NA |   | 7378  |         |      |        |        |
| SODIUM CARBONATE, HYDRATE              | 1 |   |    |    |   |   |   | 3 |   |   | NA |   | 8897  |         |      |        |        |
| THERMONATRITE                          | 1 |   |    |    |   |   |   | 3 |   |   | NA |   | 8897  |         |      |        |        |
| LEAD CARBONATE                         | 1 |   |    |    |   |   |   | 3 |   |   | PB |   | 505   |         |      |        |        |
| LEAD /II/ CARBONATE, BASIC             | 1 |   |    |    |   |   |   | 3 |   |   | PB |   | 1746  |         |      |        |        |
| STRONTIUM CARBONATE                    | 1 |   |    |    |   |   |   | 3 |   |   | SR |   | 1735  |         |      |        |        |
| SMITHSONITE                            | 1 |   |    |    |   |   |   | 3 |   |   | ZN |   | 1767  |         |      |        |        |
| ZINC CARBONATE                         | 1 |   |    |    |   |   |   | 3 |   |   | ZN |   | 1767  |         |      |        |        |
| ZINC CARBONATE, BASIC, HYDRATE         | 1 |   |    |    |   |   |   | 3 |   |   | ZN |   | 1743  |         |      |        |        |
| BISMUTH CARBONATE                      | 1 |   |    |    |   |   |   | 5 |   |   | BI |   | 1733  |         |      |        |        |
| BISMUTH SUBCARBONATE                   | 1 |   |    |    |   |   |   | 5 |   |   | BI |   | 1733  |         |      |        |        |
| CARBON DISULFIDE                       | 1 |   |    |    |   |   |   |   |   | 2 |    |   | 2223  | 10977   | 596  |        |        |
| CARBONIC ACID, THIO-,                  | 1 |   |    |    |   |   |   |   |   | 3 | K  |   | 19754 |         |      |        |        |
| POTASSIUM SALT                         |   |   |    |    |   |   |   |   |   |   |    |   |       |         |      |        |        |
| POTASSIUM THIOCARBONATE                | 1 |   |    |    |   |   |   |   |   | 3 | K  |   | 19754 |         |      |        |        |

## SADTLER STANDARD SPECTRA

## TOTAL SPECTRA MOLECULAR FORMULA INDEX - 1972

| NAME                                | C | H | Br | Cl | F | I | N | O | P | S | Si | M     | PRISM | GRATING | U.V. | N.B.R. | S.T.A. |
|-------------------------------------|---|---|----|----|---|---|---|---|---|---|----|-------|-------|---------|------|--------|--------|
| METHANE, BROMODICHLORO-             | 1 | 1 | 1  | 2  |   |   |   |   |   |   |    |       | 1898  | 18024   |      | 6709   |        |
| METHANE, DIBROMOCHLORO-             | 1 | 1 | 2  | 1  |   |   |   |   |   |   |    |       | 1896  | 284     |      | 6708   |        |
| METHANE, DIBROMOFLUORO-             | 1 | 1 | 2  |    | 1 |   |   |   |   |   |    |       | 1919  |         |      |        |        |
| BROMOFORM                           | 1 | 1 | 3  |    |   |   |   |   |   |   |    |       | 10    | 8       |      | 6375   | 600    |
| BROMOFORM K                         | 1 | 1 | 3  |    |   |   |   |   |   |   |    |       | 11345 | 8       |      |        |        |
| METHANE, TRIBROMO-                  | 1 | 1 | 3  |    |   |   |   |   |   |   |    |       | 10    | 8       |      | 6375   | 600    |
| METHANE, CHLORODIFLUORO-            | 1 | 1 | 1  | 2  |   |   |   |   |   |   |    |       | 3701  |         |      |        |        |
| METHANE, DICHLOROFLUORO-            | 1 | 1 | 1  | 2  | 1 |   |   |   |   |   |    |       | 1129  |         |      | 2429   |        |
| CHLOROFORM                          | 1 | 1 | 1  | 3  |   |   |   |   |   |   |    |       | 2224  | 305     |      | 10513  |        |
| METHANE, TRICHLORO-                 | 1 | 1 | 1  | 3  |   |   |   |   |   |   |    |       | 2224  | 305     |      | 10513  |        |
| FLUOROFORM                          | 1 | 1 | 1  |    | 3 |   |   |   |   |   |    |       | 3722  |         |      |        |        |
| IODOFORM                            | 1 | 1 | 1  |    |   | 3 |   |   |   |   |    |       | 4553  |         |      | 6753   |        |
| METHANE, TRIIDO-                    | 1 | 1 | 1  |    |   | 3 |   |   |   |   |    |       | 4553  |         |      | 6753   |        |
| FORMIC ACID, LITHIUM SALT, HYDRATE  | 1 | 1 | 1  |    |   |   | 2 |   |   |   |    | LI    | 34170 | 12160   |      | 4058   |        |
| LITHIUM FORMATE, HYDRATE            | 1 | 1 | 1  |    |   |   | 2 |   |   |   |    | LI    | 34170 | 12160   |      | 4058   |        |
| FORMIC ACID, SODIUM SALT            | 1 | 1 | 1  |    |   |   | 2 |   |   |   |    | NA    | 21431 | 10504   |      |        |        |
| SODIUM FORMATE                      | 1 | 1 | 1  |    |   |   | 2 |   |   |   |    | NA    | 21431 | 10504   |      |        |        |
| FORMIC ACID, THALLIUM // SALT       | 1 | 1 | 1  |    |   |   | 2 |   |   |   |    | TL    | 2893  |         |      |        |        |
| POTASSIUM BICARBONATE               | 1 | 1 | 1  |    |   |   | 3 |   |   |   |    | K     | 513   |         |      |        |        |
| SODIUM BICARBONATE                  | 1 | 1 | 1  |    |   |   | 3 |   |   |   |    | NA    | 11629 |         |      |        |        |
| SODIUM BICARBONATE                  | 1 | 1 | 1  |    |   |   | 3 |   |   |   |    | NA    | 512   |         |      |        |        |
| METHANE, DIIDO-                     | 1 | 2 |    |    |   | 2 |   |   |   |   |    |       | 2071  |         |      |        |        |
| METHANE, DIIDO-                     | 1 | 2 |    |    |   | 2 |   |   |   |   |    |       | 4636  | 426     |      | 226    |        |
| METHYLENE IODIDE                    | 1 | 2 |    |    |   | 2 |   |   |   |   |    |       | 2071  |         |      |        |        |
| METHANE, BROMOIO-                   | 1 | 2 | 1  |    |   | 1 |   |   |   |   |    |       | 1304  |         |      |        |        |
| METHANE, BROMOCHLORO-               | 1 | 2 | 1  | 1  |   |   |   |   |   |   |    |       | 1305  |         |      |        |        |
| METHANE, BROMOCHLORO-               | 1 | 2 | 1  | 1  |   |   |   |   |   |   |    |       | 204   |         |      | 6661   |        |
| METHANE, DIBROMO-                   | 1 | 2 | 2  |    |   |   |   |   |   |   |    |       | 5939  | 10956   |      | 6817   |        |
| METHYLENE BROMIDE                   | 1 | 2 | 2  |    |   |   |   |   |   |   |    |       | 5939  | 10956   |      | 6817   |        |
| METHANE, DICHLORO-, GAS             | 1 | 2 | 2  |    |   |   |   |   |   |   |    |       | 6620  |         |      | 6401   |        |
| METHANE, DICHLORO-,                 | 1 | 2 | 2  |    |   |   |   |   |   |   |    |       | 1011  |         |      | 6401   |        |
| METHANE, DICHLORO-,                 | 1 | 2 | 2  |    |   |   |   |   |   |   |    |       | 4354  |         |      |        |        |
| METHYLENE DICHLORIDE, GAS           | 1 | 2 | 2  |    |   |   |   |   |   |   |    |       | 6620  |         |      | 6401   |        |
| METHYLENE DICHLORIDE                | 1 | 2 | 2  |    |   |   |   |   |   |   |    |       | 1011  |         |      | 6401   |        |
| PHOSPHONIC DICHLORIDE, CHLORO-      | 1 | 2 | 3  |    |   |   | 1 | 1 |   |   |    |       | 11043 |         |      | 6934   |        |
| METHYL-,                            |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| PHOSPHONIC ACID, /TRICHLORO-        | 1 | 2 | 3  |    |   |   | 3 | 1 |   |   |    |       | 40464 | 20464   |      |        |        |
| METHYL-,                            |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| SILANE, /CHLOROMETHYL/TRICHLORO-    | 1 | 2 | 4  |    |   |   |   |   |   |   | 1  |       |       |         |      | 3445   |        |
| METHYL-D3-AMINE, HYDROCHLORIDE      | 1 | 2 |    |    |   |   | 1 | 4 |   |   | D  | 38537 | 17521 |         |      |        |        |
| 1H-TETRAZOLE                        | 1 | 2 |    |    |   |   | 4 | 5 |   |   |    |       | 37811 | 16805   |      | 11568  |        |
| 5H-TETRAZOLE, 5-AMINO-, MONOHYDRATE | 1 | 2 |    |    |   |   | 5 |   |   |   |    |       | 15292 |         | 4562 |        |        |
| FORMALDEHYDE                        | 1 | 2 |    |    |   |   |   | 1 |   |   |    |       | 2538  |         |      |        |        |
| FORMIC ACID                         | 1 | 2 |    |    |   |   |   | 2 |   |   |    |       | 25    | 15      |      | 6653   | 606    |
| METHANEDISULFONIC ACID,             | 1 | 2 |    |    |   |   |   | 6 | 2 |   | K  | 3233  |       |         |      |        |        |
| DIPOTASSIUM SALT                    |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| MERCURY, IODOMETHYL-,               | 1 | 3 |    |    |   | 1 |   |   |   |   | HG | 7951  |       |         |      |        |        |
| METHANE, IODO-,                     | 1 | 3 |    |    |   | 1 |   |   |   |   |    |       | 59    |         |      | 7872   |        |
| METHANE-D3, IODO-,                  | 1 | 3 |    |    |   | 1 |   |   |   |   |    |       | 42993 | 23993   |      |        |        |
| METHYL IODIDE                       | 1 | 3 |    |    |   | 1 |   |   |   |   |    |       | 1310  |         |      |        |        |
| METHYL IODIDE                       | 1 | 3 |    |    |   | 1 |   |   |   |   |    |       | 59    |         |      | 7872   |        |
| METHANE, BROMO-,                    | 1 | 3 | 1  |    |   |   |   |   |   |   |    |       | 1098  | 10972   |      |        |        |
| METHYL BROMIDE                      | 1 | 3 | 1  |    |   |   |   |   |   |   |    |       | 1098  | 10972   |      |        |        |
| SILANE, METHYLTRIBROMO-,            | 1 | 3 | 3  |    |   |   |   |   |   |   | 1  |       | 5563  |         |      |        |        |
| SILANE, METHYLTRICHLORO-,           | 1 | 3 | 3  |    |   |   |   |   |   |   | 1  |       | 1711  | 24006   |      | 10255  |        |
| METHANE, CHLORO-,                   | 1 | 3 |    |    |   |   |   |   |   |   |    |       | 842   | 15290   |      |        |        |
| METHANESULFINYL CHLORIDE B          | 1 | 3 | 1  |    |   |   | 1 |   | 1 |   |    |       | 12506 |         |      |        |        |
| METHANESULFONYL CHLORIDE            | 1 | 3 | 1  |    |   |   | 2 |   | 1 |   |    |       | 13515 |         |      | 9703   |        |
| PHOSPHINE, METHOXYDICHLORO-,        | 1 | 3 | 2  |    |   |   | 1 | 1 |   |   |    |       | 2066  |         |      |        |        |
| PHOSPHORODICHLORIDOUS ACID, METHYL  | 1 | 3 | 2  |    |   |   |   | 1 | 1 |   |    |       | 2066  |         |      |        |        |
| ESTER                               |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| PHOSPHONOSULFONIC DICHLORIDE,       | 1 | 3 | 2  |    |   |   |   | 1 |   |   | SE | 3919  |       |         |      |        |        |
| METHYL-,                            |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| PHOSPHONOTHIOIC DICHLORIDE,         | 1 | 3 | 2  |    |   |   |   | 1 | 1 |   |    |       | 21804 |         |      |        |        |
| METHYL-,                            |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| SILANE, METHYLTRICHLORO-,           | 1 | 3 | 3  |    |   |   |   |   |   |   | 1  |       | 5540  |         |      |        |        |
| PHOSPHONIC DIFLUORIDE, METHYL-,     | 1 | 3 |    |    |   | 2 |   | 1 | 1 |   |    |       | 21774 |         |      |        |        |
| FORMAMIDE                           | 1 | 3 |    |    |   |   | 1 | 1 |   |   |    |       | 2232  | 15200   |      | 7220   |        |
| FORMAMIDE                           | 1 | 3 |    |    |   |   | 1 | 1 |   |   |    |       | 5670  |         |      |        |        |
| METHANE, NITRO-,                    | 1 | 3 |    |    |   |   | 1 | 2 |   |   |    |       | 61    | 25      | 29   | 9146   | 629    |
| METHANE-D3, NITRO-,                 | 1 | 3 |    |    |   |   | 1 | 2 |   |   |    |       | 36549 | 14539   |      |        |        |
| METHANEDISULFONIC ACID, AMINO-, DI- | 1 | 3 |    |    |   |   | 1 | 6 | 2 |   | K  | 28050 | 3767  |         |      |        |        |
| POTASSIUM SALT                      |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| 1H-TETRAZOLE, 1-AMINO-,             | 1 | 3 |    |    |   |   | 5 |   |   |   |    |       | 4939  |         |      |        |        |
| 1H-TETRAZOLE, 5-AMINO-, MONOHYDRATE | 1 | 3 |    |    |   |   | 5 |   |   |   |    |       | 18897 | 8928    | 6134 |        |        |
| METHANOL-D                          | 1 | 3 |    |    |   |   |   | 1 |   |   | D  | 36546 |       |         |      |        |        |
| METHYL ALCOHOL-D                    | 1 | 3 |    |    |   |   |   | 1 |   |   | D  | 36546 |       |         |      |        |        |
| SODIUM METHOXIDE                    | 1 | 3 |    |    |   |   |   | 1 |   |   | NA | 10273 | 10017 |         |      | 6882   |        |
| SODIUM METHOXIDE                    | 1 | 3 |    |    |   |   |   | 1 |   |   | NA | 10273 | 10017 |         |      | 6882   |        |
| METHYL METABORATE                   | 1 | 3 |    |    |   |   |   | 2 |   |   | B  | 10975 |       |         |      | 6215   |        |
| METHANEARSONIC ACID, COPPER SALT    | 1 | 3 |    |    |   |   |   | 3 |   |   | X2 | 4906  |       |         |      |        |        |
| METHANEARSONIC ACID, DISODIUM SALT, | 1 | 3 |    |    |   |   |   | 3 |   |   | X2 | 4905  |       |         |      |        |        |
| HEXAHYDRATE                         |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| METHANESULFONIC ACID, SILVER SALT   | 1 | 3 |    |    |   |   |   | 3 | 1 |   | AG | 40607 | 20607 |         |      |        |        |
| METHANEDIOL, HYDROGEN SULFOXYLATE,  | 1 | 3 |    |    |   |   |   | 3 | 1 |   | NA | 424   | 21009 |         |      | 10166  |        |
| SODIUM SALT, DIHYDRATE              |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| METHANESULFINIC ACID, HYDROXY-,     | 1 | 3 |    |    |   |   |   | 3 | 1 |   | NA |       |       |         |      | 9500   |        |
| SODIUM SALT                         |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| SODIUM FORMALDEHYDESULFOXYLATE      | 1 | 3 |    |    |   |   |   | 3 | 1 |   | NA |       |       |         |      | 9500   |        |
| SODIUM FORMALDEHYDESULFOXYLATE,     | 1 | 3 |    |    |   |   |   | 3 | 1 |   | NA | 424   | 21009 |         |      | 10166  |        |
| DIHYDRATE                           |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |
| SULFOXYLIC ACID, /HYDROXYMETHYL/    | 1 | 3 |    |    |   |   |   | 3 | 1 |   | NA | 424   | 21009 |         |      | 10166  |        |
| ESTER, SODIUM SALT, DIHYDRATE       |   |   |    |    |   |   |   |   |   |   |    |       |       |         |      |        |        |

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|----------------------------------------------|---|---|---|---|----|---|---|----|---|---|----|---|-------|---------|------|--------|--------|
| ** GUANIDINE, AMINO-, HYDROGEN CARBONATE     | 1 | 6 |   | 4 |    |   |   |    |   |   |    |   | 3652  |         |      |        |        |
| GUANIDINE, AMINO-, NITRATE, HYDRATE, /1.1.2/ | 1 | 6 |   | 4 |    |   |   |    |   |   |    |   | 40598 | 20598   |      |        |        |
| CARBOHYDRAZIDE                               | 1 | 6 |   | 4 |    |   |   |    |   |   |    |   | 5701  |         |      |        |        |
| HYDRAZINE, CARBONYLDI-,                      | 1 | 6 |   | 4 |    |   |   |    | 1 |   |    |   | 5701  |         |      |        |        |
| UREA, 1,3-DIAMINO-,                          | 1 | 6 |   | 4 |    |   |   |    | 1 |   |    |   | 5701  |         |      |        |        |
| 1-GUANIDINESULFONAMIDE                       | 1 | 6 |   | 4 |    |   |   |    | 2 |   | 1  |   | 22146 |         |      |        |        |
| SULFAMIDE, N-AMIDINO-,                       | 1 | 6 |   | 4 |    |   |   |    | 2 |   | 1  |   | 22146 |         |      |        |        |
| METHANEDIPHOSPHONIC ACID                     | 1 | 6 |   | 6 |    |   |   |    | 2 |   |    |   | 22329 | 18792   |      | 7770   |        |
| PHOSPHONIC ACID, METHYLENEDI-,               | 1 | 6 |   | 6 |    |   |   |    | 2 |   |    |   | 22329 | 18792   |      | 7770   |        |
| AMMONIUM DITHIOCARBAZATE                     | 1 | 7 |   | 3 |    |   |   |    | 2 |   |    |   | 24677 | 4874    |      |        |        |
| CARBAZIC ACID, DITHIO-, AMMONIUM SALT        | 1 | 7 |   | 3 |    |   |   |    | 2 |   |    |   | 24677 | 4874    |      |        |        |
| ** AMMONIUM CARBONATE                        | 1 | 8 |   | 2 |    |   |   | 3  |   |   |    |   | 2848  |         |      |        |        |

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|----------------------------------------|---|---|----|----|---|---|---|---|---|---|----|----|-------|---------|-------|--------|--------|
| ETHYLENE, BROMOTRIFLUORO-,             | 2 |   |    | 1  | 3 |   |   |   |   |   |    |    | 30871 | 6842    |       |        |        |
| ETHANE, BROMOPENTAFLUORO-,             | 2 |   |    | 1  | 5 |   |   |   |   |   |    |    | 2439  |         |       |        |        |
| ETHANE-1,1,2,2-D4, 1,2-DIBROMO-,       | 2 |   |    | 2  |   |   |   |   |   |   |    | D  | 38540 | 17524   |       |        |        |
| ETHANE, 1-CHLORO-1,2-DIBROMO-1,2,2-    | 2 |   |    | 2  | 1 | 3 |   |   |   |   |    |    | 30309 | 6304    |       |        |        |
| TRIFLUORO-,                            |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** ETHANE, 1,2-DIBROMO-1,2-DICHLORO-   | 2 |   |    | 2  | 2 | 2 |   |   |   |   |    |    | 1922  |         |       |        |        |
| 1,2-DIFLUORO-,                         |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** ETHANE, 1,2-DIBROMO-1,1,2,2-        | 2 |   |    | 2  | 4 |   |   |   |   |   |    |    | 4929  |         |       |        |        |
| TETRACHLORO-,                          |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** ACETONITRILE, DIBROMOFLUORO-,       | 2 |   |    | 2  | 1 |   | 1 |   |   |   |    |    | 3236  |         |       |        |        |
| ETHANE, 1,2-DIBROMOTETRAFLUORO-,       | 2 |   |    | 2  | 4 |   |   |   |   |   |    |    | 6525  | 10957   |       | F 103  |        |
| ** METHANE, 1,2-DIBROMOTETRAFLUORO-,   | 2 |   |    | 2  | 4 |   |   |   |   |   |    |    | 1937  |         |       |        |        |
| ETHYLENE, TETRABROMO-,                 | 2 |   |    | 4  |   |   |   |   |   |   |    |    | 5422  | 469     | 1485  |        |        |
| ACETIC ACID, CHLORODIFLUORO-,          | 2 |   |    | 1  | 2 |   |   | 2 |   |   |    | NA | 13920 |         |       |        |        |
| SODIUM SALT                            |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ETHYLENE, CHLOROTRIFLUORO-,            | 2 |   |    | 1  | 3 |   |   |   |   |   |    |    | 30867 | 6839    |       |        |        |
| GENETRON 1113                          | 2 |   |    | 1  | 3 |   |   |   |   |   |    |    | 30867 | 6839    |       |        |        |
| ETHANE, CHLOROPENTAFLUORO-,            | 2 |   |    | 1  | 5 |   |   |   |   |   |    |    | 2440  |         |       |        |        |
| ACETYL-D3 CHLORIDE                     | 2 |   |    | 1  |   |   | 1 |   |   |   |    | D  | 42995 | 23995   |       |        |        |
| ** ACETONITRILE, DICHLOROFLUORO-,      | 2 |   |    | 2  | 1 |   | 1 |   |   |   |    |    | 3258  |         |       |        |        |
| ETHANE, 1,2-DICHLORO-1-iodo-1,2,2-     | 2 |   |    | 2  | 3 | 1 |   |   |   |   |    |    | 27850 | 3579    |       |        |        |
| TRIFLUORO-,                            |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| THIADIAZOLE, 1,2,5-, 3,4-DICHLORO-,    | 2 |   |    | 2  |   |   | 2 |   | 1 |   |    |    | 36776 | 14765   |       |        |        |
| DITHIADIAZINE, 1,4,2,5-, 3,6-DI-       | 2 |   |    | 2  |   |   | 2 |   | 2 |   |    |    | 27491 | 3231    | 10560 |        |        |
| CHLORO-,                               |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| OXALYL CHLORIDE                        | 2 |   |    | 2  |   |   |   | 2 |   |   |    |    | 6653  |         |       |        |        |
| ETHANE, 1,1,2-TRICHLORO-1,2,2-         | 2 |   |    | 3  | 3 |   |   |   |   |   |    |    | 23717 | 10998   |       |        |        |
| TRIFLUORO-,                            |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** ETHANE, 1,1,2-TRICHLORO-            | 2 |   |    | 3  | 3 |   |   |   |   |   |    |    | 1925  |         |       |        |        |
| 1,2,2-TRIFLUORO-,                      |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| FREON 113                              | 2 |   |    | 3  | 3 |   |   |   |   |   |    |    | 23717 | 10998   |       |        |        |
| ACETONITRILE, TRICHLORO-,              | 2 |   |    | 3  |   |   | 1 |   |   |   |    |    | 38232 | 17218   |       |        |        |
| ACETONITRILE, TRICHLORO-,              | 2 |   |    | 3  |   |   | 1 |   |   |   |    |    | 38232 | 23996   |       |        |        |
| ** ACETONITRILE, TRICHLORO-,           | 2 |   |    | 3  |   |   | 1 |   |   |   |    |    | 3256  |         |       |        |        |
| ACETONITRILE, TRICHLORO-,              | 2 |   |    | 3  |   |   | 1 |   |   |   |    |    | 42996 | 23996   |       |        |        |
| ACETONITRILE, TRICHLORO-,              | 2 |   |    | 3  |   |   | 1 |   |   |   |    |    | 42996 | 17218   |       |        |        |
| ACETIC ACID, TRICHLORO-, SODIUM        | 2 |   |    | 3  |   |   |   | 2 |   |   |    | NA | 42383 | 23383   |       |        |        |
| SALT                                   |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** ETHYLENE, TETRACHLORO-,             | 2 |   |    | 4  |   |   |   |   |   |   |    |    | 4786  |         |       |        |        |
| ETHYLENE, TETRACHLORO-,                | 2 |   |    | 4  |   |   |   |   |   |   |    |    | 4471  |         |       |        |        |
| ETHYLENE, TETRACHLORO-,                | 2 |   |    | 4  |   |   |   |   |   |   |    |    | 237   | 79      |       |        |        |
| ** PERCHLOROETHYLENE                   | 2 |   |    | 4  |   |   |   |   |   |   |    |    | 4786  |         |       |        |        |
| ETHANE, 1,1-DIFLUORO-                  | 2 |   |    | 4  | 2 |   |   |   |   |   |    |    | 1926  |         |       |        |        |
| 1,2,2,2-TETRACHLORO-,                  |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ETHANE, 1,2-DIFLUORO-1,1,2,2-TETRA-    | 2 |   |    | 4  | 2 |   |   |   |   |   |    |    | 6524  |         |       |        |        |
| CHLORO-,                               |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ETHANE, 1,2-DIFLUORO-1,1,2,2-TETRA-    | 2 |   |    | 4  | 2 |   |   |   |   |   |    |    | 15050 |         |       |        |        |
| CHLORO-, B                             |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| FREON 112                              | 2 |   |    | 4  | 2 |   |   |   |   |   |    |    | 6524  |         |       |        |        |
| ACETYL CHLORIDE, TRICHLORO-,           | 2 |   |    | 4  |   |   | 1 |   |   |   |    |    | 391   |         |       |        |        |
| ** ETHANE, FLUOROPENTACHLORO-,         | 2 |   |    | 5  | 1 |   |   |   |   |   |    |    | 1927  |         |       |        |        |
| ETHANE, HEXACHLORO-,                   | 2 |   |    | 6  |   |   |   |   |   |   |    |    | 4546  | 411     |       |        |        |
| ACETONITRILE, TRIFLUORO-,              | 2 |   |    | 3  |   |   | 1 |   |   |   |    |    | 2503  |         |       |        |        |
| ACETIC ACID, TRIFLUORO-, SILVER        | 2 |   |    | 3  |   |   |   | 2 |   |   |    | AG | 24557 | 4799    |       |        |        |
| SALT                                   |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| SILVER TRIFLUOROACETATE                | 2 |   |    | 3  |   |   |   | 2 |   |   |    | AG | 24557 | 4799    |       |        |        |
| ACETIC ACID, TRIFLUORO-, SODIUM        | 2 |   |    | 3  |   |   |   | 2 |   |   |    | NA | 1348  |         |       |        | 1028   |
| SALT                                   |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** ACETIC ACID, TRIFLUORO-, SODIUM     | 2 |   |    | 3  |   |   |   | 2 |   |   |    | NA | 1700  |         |       |        |        |
| SALT                                   |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ETHANE, IODOPENTAFLUORO-,              | 2 |   |    | 5  | 1 |   |   |   |   |   |    |    | 2434  |         |       |        |        |
| ETHANE, HEXAFLUORO-,                   | 2 |   |    | 6  |   |   |   |   |   |   |    |    | 30863 | 6836    |       |        |        |
| SULFUR, PENTAFLUORO/PENTAFLUORO-       | 2 |   |    | 9  |   |   |   |   | 1 |   |    |    | 13178 |         |       |        |        |
| ETHYL-, /GAS/                          |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** CYANOGEN                            | 2 |   |    |    |   |   | 2 |   |   |   |    |    | 2849  |         |       |        |        |
| ** BARIUM THIOCYANATE, DIHYDRATE       | 2 |   |    |    |   |   | 2 |   | 2 |   |    | BA | 490   |         |       |        |        |
| ** MERCURIC THIOCYANATE                | 2 |   |    |    |   |   | 2 |   | 2 |   |    | HG | 492   |         |       |        |        |
| ** LEAD THIOCYANATE                    | 2 |   |    |    |   |   | 2 |   | 2 |   |    | PB | 491   |         |       |        |        |
| STRONTIUM THIOCYANATE, TRIHYDRATE      | 2 |   |    |    |   |   | 2 |   | 2 |   |    | SR | 1425  |         |       |        |        |
| THIOCYANIC ACID, STRONTIUM DERIVA-     | 2 |   |    |    |   |   | 2 |   | 2 |   |    | SR | 1425  |         |       |        |        |
| TIVE, TRIHYDRATE                       |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| SODIUM, /5-/NITRO-ACI-NITROMETHYL/-    | 2 |   |    |    |   |   | 6 | 4 |   |   |    | NA | 29705 |         |       |        |        |
| 1H-TETRAZOL-1-YL/-, SODIUM DERIVATIVE  | 2 |   |    |    |   |   | 6 | 4 |   |   |    | NA | 29705 |         |       |        |        |
| NICKEL CARBONYL /POLYMER/ F            | 2 |   |    |    |   |   | 2 |   | 2 |   |    | NI | 12182 |         |       |        |        |
| ** OXALIC ACID, DITHIO-, DIPOTASSIUM   | 2 |   |    |    |   |   | 2 |   | 2 |   |    | K  | 2894  |         |       |        |        |
| SALT                                   |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** BARIUM OXALATE, HYDRATE             | 2 |   |    |    |   |   | 4 |   |   |   |    | BA | 64    |         |       |        |        |
| ** BERYLLIUM OXALATE, TRIHYDRATE       | 2 |   |    |    |   |   | 4 |   |   |   |    | BE | 73    |         |       |        |        |
| ** CALCIUM OXALATE, HYDRATE            | 2 |   |    |    |   |   | 4 |   |   |   |    | CA | 65    |         |       |        |        |
| ** CALCIUM OXALATE, MONOHYDRATE        | 2 |   |    |    |   |   | 4 |   |   |   |    | CA | 7233  |         |       |        |        |
| ** CALCIUM OXALATE, MONOHYDRATE        | 2 |   |    |    |   |   | 4 |   |   |   |    | CA | 1724  |         |       |        | 1090   |
| ** OXALIC ACID, CALCIUM SALT /1 TO 1/, | 2 |   |    |    |   |   | 4 |   |   |   |    | CA | 7233  |         |       |        |        |
| MONOHYDRATE                            |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** CADMIUM OXALATE, TRIHYDRATE         | 2 |   |    |    |   |   | 4 |   |   |   |    | CD | 70    |         |       |        |        |
| ** COBALTOUS OXALATE                   | 2 |   |    |    |   |   | 4 |   |   |   |    | CO | 62    |         |       |        |        |
| ** CHROMIUM/OUS/ OXALATE, HYDRATE      | 2 |   |    |    |   |   | 4 |   |   |   |    | CR | 74    |         |       |        |        |
| COPPER /II/ OXALATE, HEMIHYDRATE       | 2 |   |    |    |   |   | 4 |   |   |   |    | CU | 1728  |         |       |        |        |
| ** CUPRIC OXALATE, HEMIHYDRATE         | 2 |   |    |    |   |   | 4 |   |   |   |    | CU | 71    |         |       |        |        |
| OXALIC ACID, COPPER /II/ SALT,         | 2 |   |    |    |   |   | 4 |   |   |   |    | CU | 1728  |         |       |        |        |
| HEMIHYDRATE                            |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |
| ** FERROUS OXALATE, DIHYDRATE          | 2 |   |    |    |   |   | 4 |   |   |   |    | FE | 61    |         |       |        |        |
| ** MERCURIC OXALATE                    | 2 |   |    |    |   |   | 4 |   |   |   |    | HG | 68    |         |       |        |        |
| OXALIC ACID, DIPOTASSIUM SALT,         | 2 |   |    |    |   |   | 4 |   |   |   |    | K  | 539   | 18004   |       |        |        |
| HYDRATE                                |   |   |    |    |   |   |   |   |   |   |    |    |       |         |       |        |        |

## SADTLER STANDARD SPECTRA

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|--------------------------------------------------------------|---|---|----|----|---|---|---|---|---|---|----|----|-------|---------|-------|--------|--------|
| POTASSIUM OXALATE, HYDRATE                                   | 2 |   |    |    |   |   |   | 4 |   |   |    | K  | 539   | 18004   |       |        |        |
| POTASSIUM OXALATE, HYDRATE                                   | 2 |   |    |    |   |   |   | 4 |   |   |    | K  | 57    |         |       |        |        |
| LITHIUM OXALATE                                              | 2 |   |    |    |   |   |   | 4 |   |   |    | LI | 56    |         |       |        |        |
| MAGNESIUM OXALATE, DIHYDRATE                                 | 2 |   |    |    |   |   |   | 4 |   |   |    | MG | 58    |         |       |        |        |
| MAGNESIUM OXALATE, DIHYDRATE                                 | 2 |   |    |    |   |   |   | 4 |   |   |    | MG | 1732  |         |       |        |        |
| OXALIC ACID, MAGNESIUM SALT, DIHYDRATE                       | 2 |   |    |    |   |   |   | 4 |   |   |    | MG | 1732  |         |       |        |        |
| MANGANOUS OXALATE, DIHYDRATE                                 | 2 |   |    |    |   |   |   | 4 |   |   |    | MN | 59    |         |       |        |        |
| MOLYBDENUM OXALATE, TRIHYDRATE                               | 2 |   |    |    |   |   |   | 4 |   |   |    | MO | 72    |         |       |        |        |
| OXALIC ACID, DISODIUM SALT                                   | 2 |   |    |    |   |   |   | 4 |   |   |    | NA | 1702  |         |       |        |        |
| OXALIC ACID, SODIUM SALT                                     | 2 |   |    |    |   |   |   | 4 |   |   |    | NA | 6386  | 21079   |       |        |        |
| SODIUM OXALATE                                               | 2 |   |    |    |   |   |   | 4 |   |   |    | NA | 6386  | 21079   |       |        |        |
| SODIUM OXALATE                                               | 2 |   |    |    |   |   |   | 4 |   |   |    | NA | 55    |         |       |        |        |
| NICKEL OXALATE, DIHYDRATE                                    | 2 |   |    |    |   |   |   | 4 |   |   |    | NI | 63    |         |       |        |        |
| LEAD OXALATE                                                 | 2 |   |    |    |   |   |   | 4 |   |   |    | PB | 67    |         |       |        |        |
| STANNOUS OXALATE                                             | 2 |   |    |    |   |   |   | 4 |   |   |    | SN | 69    |         |       |        |        |
| OXALIC ACID, STRONTIUM SALT                                  | 2 |   |    |    |   |   |   | 4 |   |   |    | SR | 9469  |         |       |        |        |
| STRONTIUM OXALATE, HYDRATE                                   | 2 |   |    |    |   |   |   | 4 |   |   |    | SR | 66    |         |       |        |        |
| ZINC OXALATE, DIHYDRATE                                      | 2 |   |    |    |   |   |   | 4 |   |   |    | ZN | 60    |         |       |        |        |
| OXALIC ACID, VANADYL SALT                                    | 2 |   |    |    |   |   |   | 5 |   |   |    | V  | 6290  |         |       |        |        |
| VANADYL OXALATE                                              | 2 |   |    |    |   |   |   | 5 |   |   |    | V  | 6290  |         |       |        |        |
| VANADYL OXALATE, TRIHYDRATE                                  | 2 |   |    |    |   |   |   | 5 |   |   |    | V  | 75    |         |       |        |        |
| CALCIUM MAGNESIUM CARBONATE                                  | 2 |   |    |    |   |   |   | 6 |   |   |    | X2 | 1738  |         |       |        |        |
| DOLOMITE                                                     | 2 |   |    |    |   |   |   | 6 |   |   |    | X2 | 1738  |         |       |        |        |
| ETHANE, 1-BROMO-2-CHLORO-1,1,2-TRIFLUORO-                    | 2 | 1 | 1  | 1  | 3 |   |   |   |   |   |    |    | 30308 | 6303    |       | 932    |        |
| ETHANE, 2-BROMO-2-CHLORO-1,1,1-TRIFLUORO-                    | 2 | 1 | 1  | 1  | 3 |   |   |   |   |   |    |    | 19787 | 726     |       |        |        |
| ETHANE, 1,2-DIBROMO-1,1,2-TRICHLORO-                         | 2 | 1 | 2  | 3  |   |   |   |   |   |   |    |    | 32051 | 9050    |       | 3888   |        |
| ACETONITRILE, DIBROMO-                                       | 2 | 1 | 2  |    |   | 1 |   |   |   |   |    |    | 6434  |         |       |        |        |
| ACETONITRILE, DIBROMO-                                       | 2 | 1 | 2  |    |   | 1 |   |   |   |   |    |    | 24255 | 883     |       | 2567   |        |
| ACETALDEHYDE, TRIBROMO-                                      | 2 | 1 | 3  |    |   |   | 1 |   |   |   |    |    | 3808  |         |       |        |        |
| ACETALDEHYDE, TRIBROMO-                                      | 2 | 1 | 3  |    |   |   | 1 |   |   |   |    |    | 37818 | 16812   |       | 8236   |        |
| BROMAL                                                       | 2 | 1 | 3  |    |   |   | 1 |   |   |   |    |    | 37818 | 16812   |       | 8236   |        |
| BROMAL                                                       | 2 | 1 | 3  |    |   |   | 1 |   |   |   |    |    | 3808  |         |       |        |        |
| ACETIC ACID, TRIBROMO-                                       | 2 | 1 | 3  |    |   |   | 2 |   |   |   |    |    | 22002 | 21648   |       | 6785   |        |
| ETHANE, PENTABROMO-                                          | 2 | 1 | 5  |    |   |   |   |   |   |   |    |    | 5244  | 15517   |       |        |        |
| ACETIC ACID, CHLORODIFLUORO-                                 | 2 | 1 |    |    | 2 |   |   | 2 |   |   |    |    | 23644 |         |       |        |        |
| ETHANE, 1-CHLORO-2-IODO-1,1,2-TRIFLUORO-                     | 2 | 1 |    | 1  | 3 | 1 |   |   |   |   |    |    | 27849 | 3578    |       | 956    |        |
| THIADIAZOL-3-OL, 1,2,5-, 4-CHLORO-                           | 2 | 1 |    | 1  |   |   | 2 | 1 |   | 1 |    |    | 36777 | 14766   |       |        |        |
| THIADIAZOLE, 1,2,5-, 3-CHLORO-                               | 2 | 1 |    | 1  |   |   | 2 |   |   | 1 |    |    | 36775 | 14764   |       | 7864   |        |
| ACETONITRILE, DICHLORO-                                      | 2 | 1 | 2  |    |   |   |   |   |   |   |    |    | 4639  |         |       |        |        |
| ACETIC ACID, DICHLORO-, SODIUM SALT                          | 2 | 1 | 2  |    |   |   |   | 2 |   |   | NA |    | 5624  |         |       |        |        |
| ETHYLENE, TRICHLORO-                                         | 2 | 1 | 3  |    |   |   |   |   |   |   |    |    | 4470  |         |       |        |        |
| ETHYLENE, TRICHLORO-                                         | 2 | 1 | 3  |    |   |   |   |   |   |   |    |    | 185   | 62      |       | 9266   |        |
| ETHANE, 1,1-DIFLUORO-1,2,2-TRICHLORO-                        | 2 | 1 |    | 3  | 2 |   |   |   |   |   |    |    | 28364 |         |       |        |        |
| ETHANE, 2,2-DIFLUORO-1,1,2-TRICHLORO-                        | 2 | 1 |    | 3  | 2 |   |   |   |   |   |    |    | 277   |         |       |        |        |
| ACETALDEHYDE, 2,2,2-TRICHLORO-                               | 2 | 1 |    | 3  |   |   |   | 1 |   |   |    |    | 4626  |         |       | 10362  |        |
| ACETYL CHLORIDE, DICHLORO-                                   | 2 | 1 |    | 3  |   |   |   | 1 |   |   |    |    | 2378  |         |       |        |        |
| ACETYL CHLORIDE, 2,2-DICHLORO-                               | 2 | 1 |    | 3  |   |   |   | 1 |   |   |    |    | 6264  |         |       |        |        |
| CHLORAL                                                      | 2 | 1 |    | 3  |   |   |   | 1 |   |   |    |    | 4626  |         |       | 10362  |        |
| CHLORAL, ANHYDROUS                                           | 2 | 1 |    | 3  |   |   |   | 1 |   |   |    |    |       |         |       | 8241   |        |
| ACETIC ACID, TRICHLORO-                                      | 2 | 1 |    | 3  |   |   |   | 2 |   |   |    |    | 2376  |         |       |        |        |
| ACETIC ACID, TRICHLORO-                                      | 2 | 1 |    | 3  |   |   |   | 2 |   |   |    |    | 36    | 8       |       | 6      | 614    |
| ACETIC ACID, TRICHLORO-                                      | 2 | 1 |    | 3  |   |   |   | 2 |   |   |    |    | 11346 |         |       | 6      |        |
| ETHANE, PENTACHLORO-                                         | 2 | 1 |    | 5  |   |   |   |   |   |   |    |    | 178   |         |       |        |        |
| ETHANE, PENTACHLORO-                                         | 2 | 1 |    | 5  |   |   |   |   |   |   |    |    | 4476  |         |       |        |        |
| ACETIC ACID, DIFLUORO-, SODIUM SALT                          | 2 | 1 |    |    | 2 |   |   | 2 |   |   | NA |    | 14892 | 18645   |       | 4925   |        |
| ETHYLENE, TRIFLUORO-                                         | 2 | 1 |    |    | 3 |   |   |   |   |   |    |    | 30870 | 6841    |       |        |        |
| 1H-TETRAZOLE, 5-/NITRO-ACI-NITRO-METHYL/-, SODIUM DERIVATIVE | 2 | 1 |    |    |   | 6 | 4 |   |   |   | NA |    | 29704 | 5697    |       |        |        |
| METHYL SULFOXIDE-1,1,1,3,3,3-D5 /SEE IR 7031/                | 2 | 1 |    |    |   |   |   | 1 |   | 1 | D  |    |       |         |       | V 376  |        |
| GLYOXYLIC ACID, SODIUM SALT, HYDRATE                         | 2 | 1 |    |    |   |   |   | 3 |   |   | NA |    | 644   | 8077    |       | 8208   |        |
| ACETYLENE                                                    | 2 | 2 |    |    |   |   |   |   |   |   |    |    | 3961  |         |       |        |        |
| ETHINE                                                       | 2 | 2 |    |    |   |   |   |   |   |   |    |    | 3961  |         |       |        |        |
| ETHYNE                                                       | 2 | 2 |    |    |   |   |   |   |   |   |    |    | 3961  |         |       |        |        |
| ETHYLENE, 1-BROMO-2-CHLORO-                                  | 2 | 2 | 1  | 1  |   |   |   |   |   |   |    |    | 1190  |         |       |        |        |
| ACETYL CHLORIDE, BROMO-                                      | 2 | 2 | 1  | 1  |   |   | 1 |   |   |   |    |    | 6635  |         |       |        |        |
| ETHYLENE, 1,2-DIBROMO-                                       | 2 | 2 | 2  |    |   |   |   |   |   |   |    |    | 7190  |         |       | 9349   |        |
| ETHANE, 1,2-DIBROMO-1,2-DICHLORO-                            | 2 | 2 | 2  | 2  |   |   |   |   |   |   |    |    | 17    |         |       |        |        |
| ETHANE, 1,1-DICHLORO-1,2-DIBROMO-                            | 2 | 2 | 2  | 2  |   |   |   |   |   |   |    |    | 1771  | 274     |       | 6379   | 1093   |
| ETHANE, 1,2-DIBROMO-1,1-DIFLUORO-                            | 2 | 2 |    |    | 2 |   |   |   |   |   |    |    | 27856 | 3584    |       | 957    |        |
| ACETYL BROMIDE, BROMO-                                       | 2 | 2 |    |    |   |   |   | 1 |   |   |    |    | 9717  |         |       | 9167   |        |
| ACETIC ACID, DIBROMO-                                        | 2 | 2 |    |    |   |   |   | 2 |   |   |    |    | 23661 |         |       | 14411  |        |
| ACETIC ACID, DIBROMO-                                        | 2 | 2 |    |    |   |   |   | 2 |   |   |    |    | 1424  |         |       |        |        |
| ETHANE, 1,1,2,2-TETRABROMO-                                  | 2 | 2 | 4  |    |   |   |   |   |   |   |    |    | 5708  |         |       |        |        |
| ETHANE, 1,1,2,2-TETRABROMO-                                  | 2 | 2 | 4  |    |   |   |   |   |   |   |    |    | 1465  | 247     |       | 6409   |        |
| ETHANE, 1-CHLORO-1,1,2-TRIFLUORO-                            | 2 | 2 |    | 1  | 3 |   |   |   |   |   |    |    |       |         |       | F 102  |        |
| ETHANE, 1,1,1-TRIFLUORO-2-CHLORO-                            | 2 | 2 |    | 1  | 3 |   |   |   |   |   |    |    | 7457  |         |       |        |        |
| ACETONITRILE, CHLORO-                                        | 2 | 2 |    | 1  |   |   | 1 |   |   |   |    |    | 7886  |         |       |        |        |
| ACETONITRILE, 2-CHLORO-                                      | 2 | 2 |    | 1  |   |   | 1 |   |   |   |    |    | 5183  |         |       | 6783   |        |
| THIOCYANIC ACID, CHLOROMETHYL ESTER                          | 2 | 2 |    | 1  |   |   | 1 |   |   | 1 |    |    | 37812 | 16806   |       | 8226   |        |
| THIOCYANIC ACID, CHLOROMETHYL ESTER                          | 2 | 2 |    | 1  |   |   | 1 |   |   | 1 |    |    | 38853 | 17853   |       | 8226   |        |
| TRIAZOLE, 3-CHLORO-, 1H-1,2,4-, K                            | 2 | 2 |    | 1  |   |   | 3 |   |   |   |    |    | 12512 | 18264   | 15790 | 4961   |        |
| ACETIC ACID, CHLORO-, SODIUM SALT                            | 2 | 2 |    | 1  |   |   |   | 2 |   |   | NA |    | 5934  |         |       |        |        |
| ETHYLENE, DICHLORO-                                          | 2 | 2 |    | 2  |   |   |   |   |   |   |    |    | 3206  |         |       |        |        |
| ETHYLENE, CIS-1,2-DICHLORO-                                  | 2 | 2 |    | 2  |   |   |   |   |   |   |    |    | 3645  |         |       |        |        |
| ETHYLENE, TRANS-1,2-DICHLORO-                                | 2 | 2 |    | 2  |   |   |   |   |   |   |    |    | 3646  |         |       | 6742   |        |



| NAME                                                                  | C | H | Br | Cl | F | I | N | O | P | S | SI | M | PRISM | GRATING | U.V.  | N.M.R. | D.T.A. |
|-----------------------------------------------------------------------|---|---|----|----|---|---|---|---|---|---|----|---|-------|---------|-------|--------|--------|
| ETHYLENE, 1,1-DICHLORO-,                                              | 2 | 2 |    | 2  |   |   |   |   |   |   |    |   | 11632 |         |       | 6385   |        |
| ETHYLENE, 1,1-DICHLORO-,                                              | 2 | 2 |    | 2  |   |   |   |   |   |   |    |   | 4467  |         |       |        |        |
| ETHYLENE, 1,2-DICHLORO-, CIS-,                                        | 2 | 2 |    | 2  |   |   |   |   |   |   |    |   | 4468  |         |       |        |        |
| ETHYLENE, 1,2-DICHLORO-, TRANS-,                                      | 2 | 2 |    | 2  |   |   |   |   |   |   |    |   | 4469  |         |       |        |        |
| ETHANE, 1,2-DICHLORO-1,1-DIFLUORO-,                                   | 2 | 2 |    | 2  | 2 |   |   |   |   |   |    |   |       |         |       | F 101  |        |
| ETHANE, 1,2-DICHLORO-1,1-DIFLUORO-,                                   | 2 | 2 |    | 2  | 2 |   |   |   |   |   |    |   |       |         |       | V 369  |        |
| ETHANE, 1,2-DICHLORO-1,2-DIFLUORO-,                                   | 2 | 2 |    | 2  | 2 |   |   |   |   |   |    |   | 28365 |         |       |        |        |
| ETHANE, 2,2-DICHLORO-1,1-DIFLUORO-,                                   | 2 | 2 |    | 2  | 2 |   |   |   |   |   |    |   | 16    |         |       |        |        |
| ACETALDEHYDE, DICHLORO-,                                              | 2 | 2 |    | 2  |   |   |   | 1 |   |   |    |   | 8040  |         |       |        |        |
| ACETYL CHLORIDE, CHLORO-,                                             | 2 | 2 |    | 2  |   |   |   | 1 |   |   |    |   | 2993  |         |       | 9147   |        |
| ACETYL CHLORIDE, CHLORO-,                                             | 2 | 2 |    | 2  |   |   |   | 1 |   |   |    |   | 2993  |         |       | 8771   |        |
| ACETYL CHLORIDE, CHLORO-,                                             | 2 | 2 |    | 2  |   |   |   | 1 |   |   |    |   | 2239  |         |       |        |        |
| ACETIC ACID, DICHLOROTHIO-,                                           | 2 | 2 |    | 2  |   |   |   | 1 |   | 1 |    |   | 858   |         |       |        |        |
| ACETIC ACID, DICHLORO-,                                               | 2 | 2 |    | 2  |   |   |   | 2 |   |   |    |   | 2806  |         |       | 166    |        |
| ETHANE, 1-FLUORO-1,2,2-TRICHLORO-,                                    | 2 | 2 |    | 3  | 1 |   |   |   |   |   |    |   | 18    |         |       |        |        |
| ACETAMIDE, 2,2,2-TRICHLORO-,                                          | 2 | 2 |    | 3  |   |   | 1 | 1 |   |   |    |   | 2333  |         |       |        |        |
| ACETYL CHLORIDE, /DICHLORO-<br>PHOSPHINYL/-,                          | 2 | 2 |    | 3  |   |   |   | 2 | 1 |   |    |   | 6854  |         |       |        |        |
| ETHANE, 1,1,2,2-TETRACHLORO-,                                         | 2 | 2 |    | 4  |   |   |   |   |   |   |    |   | 182   |         |       | 10209  |        |
| ETHANE, 1,1,2,2-TETRACHLORO-,                                         | 2 | 2 |    | 4  |   |   |   |   |   |   |    |   | 182   | 60      |       | J 119  |        |
| ACETIC ACID, FLUORO-, SODIUM SALT                                     | 2 | 2 |    |    | 1 |   |   | 2 |   |   | NA |   | 17459 |         |       |        |        |
| ETHYLENE, 1,1-DIFLUORO-,                                              | 2 | 2 |    |    | 2 |   |   |   |   |   |    |   | 30862 |         |       |        |        |
| ETHYLENE, 1,2-DIFLUORO-,                                              | 2 | 2 |    |    | 2 |   |   |   |   |   |    |   | 30869 |         |       |        |        |
| GENETRON 1132                                                         | 2 | 2 |    |    | 2 |   |   |   |   |   |    |   | 30869 |         |       |        |        |
| ACETIC ACID, DIFLUORO-,                                               | 2 | 2 |    |    |   |   |   | 2 |   |   |    |   | 14891 | 15789   |       | 6094   |        |
| ETHANE, 2-IODO-1,1,1-TRIFLUORO-,                                      | 2 | 2 |    |    | 3 | 1 |   |   |   |   |    |   | 23721 |         |       |        |        |
| ACETAMIDE, 2,2,2-TRIFLUORO-,                                          | 2 | 2 |    |    | 3 |   | 1 | 1 |   |   |    |   | 27858 | 15976   |       |        |        |
| ACETIC ACID, IODO-, SODIUM SALT                                       | 2 | 2 |    |    |   | 1 |   | 2 |   |   | NA |   | 18407 | 24685   |       | 12525  |        |
| ACETIC ACID, NITRO-, LITHIUM SALT                                     | 2 | 2 |    |    |   |   | 1 | 4 |   |   | LI |   | 34171 | 12161   |       |        |        |
| FURAZAN                                                               | 2 | 2 |    |    |   |   | 2 | 1 |   |   |    |   | 29233 | 5229    | 13445 | 1326   |        |
| OXADIAZOLE, 1,2,5-,                                                   | 2 | 2 |    |    |   |   | 2 | 1 |   |   |    |   | 29233 | 5229    | 13445 | 1326   |        |
| THIADIAZOL-3-OL, 1,2,5-,                                              | 2 | 2 |    |    |   |   | 2 | 1 |   | 1 |    |   | 28034 | 3751    | 10913 | 1607   |        |
| OXAMIC ACID, N-SULFAMOYL-, N-<br>POTASSIUM DERIVATIVE, POTASSIUM SALT | 2 | 2 |    |    |   |   | 2 | 5 |   | 1 | K  |   | 28037 | 3754    |       |        |        |
| POTASSIUM, /1-CARBOXY-N-SULFAMOYL-<br>FORMAMIDO/-, POTASSIUM SALT     | 2 | 2 |    |    |   |   | 2 | 5 |   | 1 | K  |   | 28037 | 3754    |       |        |        |
| THIADIAZOLE-2,5-DITHIOL, 1,3,4-,                                      | 2 | 2 |    |    |   |   | 2 |   |   | 3 |    |   | 19580 | 10233   | 6442  |        |        |
| PSEUDOUREA, 1-CYANO-, SODIUM SALT                                     | 2 | 2 |    |    |   |   | 3 | 1 |   |   | NA |   | 42999 | 23999   |       |        |        |
| UREA, CYANO-, SODIUM SALT                                             | 2 | 2 |    |    |   |   | 3 | 1 |   |   | NA |   | 42999 | 23999   |       |        |        |
| S-TRIAZOLE, 5-NITRO-,                                                 | 2 | 2 |    |    |   |   | 4 | 2 |   |   |    |   | 38997 | 17997   |       |        |        |
| THIADIAZOLE, 2-NITRAMINO-1,3,4-,                                      | 2 | 2 |    |    |   |   | 4 | 2 |   | 1 |    |   | 1445  |         |       |        |        |
| THIADIAZOLE, 5-NITRAMINO-1,2,4-,                                      | 2 | 2 |    |    |   |   | 4 | 2 |   | 1 |    |   | 1449  |         |       |        |        |
| 1H-TETRAZOLE, 5-/DINITROMETHYL/-,                                     | 2 | 2 |    |    |   |   | 6 |   |   |   |    |   | 29703 | 5696    |       |        |        |
| 1,2-ETHANEDIOL-1,1,2,2-D4                                             | 2 | 2 |    |    |   |   | 2 |   |   |   | D  |   | 38539 | 17523   |       |        |        |
| ETHYLENE-D4 GLYCOL                                                    | 2 | 2 |    |    |   |   | 2 |   |   |   | D  |   | 38539 | 17523   |       |        |        |
| FORMIC ACID, FORMYL-, HYDRATE                                         | 2 | 2 |    |    |   |   | 3 |   |   |   |    |   | 11800 | 15747   |       | 7847   |        |
| GLYOXALIC ACID, HEMIHYDRATE                                           | 2 | 2 |    |    |   |   | 3 |   |   |   |    |   | 17533 |         |       |        |        |
| GLYOXYLIC ACID, HYDRATE                                               | 2 | 2 |    |    |   |   | 3 |   |   |   |    |   | 11800 | 15747   |       | 7847   |        |
| BARIUM FORMATE                                                        | 2 | 2 |    |    |   |   | 4 |   |   |   | BA |   | 8587  |         |       |        |        |
| FORMIC ACID, BARIUM SALT                                              | 2 | 2 |    |    |   |   | 4 |   |   |   | BA |   | 8587  |         |       |        |        |
| CALCIUM FORMATE                                                       | 2 | 2 |    |    |   |   | 4 |   |   |   | CA |   | 6636  | 18135   |       | 6847   | 1584   |
| CALCIUM FORMATE                                                       | 2 | 2 |    |    |   |   | 4 |   |   |   | CA |   |       |         |       | 10410  |        |
| FORMIC ACID, CALCIUM SALT                                             | 2 | 2 |    |    |   |   | 4 |   |   |   | CA |   |       |         |       | 10410  |        |
| FORMIC ACID, CALCIUM SALT                                             | 2 | 2 |    |    |   |   | 4 |   |   |   | CA |   | 6636  | 18135   |       | 6847   | 1584   |
| COPPER /II/ FORMATE, TETRAHYDRATE                                     | 2 | 2 |    |    |   |   | 4 |   |   |   | CU |   | 6289  |         |       |        |        |
| FORMIC ACID, COPPER /II/ SALT,<br>TETRAHYDRATE                        | 2 | 2 |    |    |   |   | 4 |   |   |   | CU |   | 6289  |         |       |        |        |
| FORMIC ACID, MANGANESE /II/ SALT,<br>DIHYDRATE                        | 2 | 2 |    |    |   |   | 4 |   |   |   | MN |   | 34172 | 12162   |       |        |        |
| MANGANESE /II/ FORMATE, DIHYDRATE                                     | 2 | 2 |    |    |   |   | 4 |   |   |   | MN |   | 34172 | 12162   |       |        |        |
| OXALIC ACID                                                           | 2 | 2 |    |    |   |   | 4 |   |   |   |    |   | 2962  | 8279    |       |        | 1297   |
| OXALIC ACID, DIHYDRATE                                                | 2 | 2 |    |    |   |   | 4 |   |   |   |    |   | 1277  |         |       |        |        |
| OXALIC ACID, DIHYDRATE                                                | 2 | 2 |    |    |   |   | 4 |   |   |   |    |   | 40466 | 20466   |       |        |        |
| LEAD CARBONATE, BASIC                                                 | 2 | 2 |    |    |   |   | 8 |   |   |   | PB |   | 1029  |         |       |        |        |
| LEAD CARBONATE, BASIC                                                 | 2 | 2 |    |    |   |   | 8 |   |   |   | PB |   | 4645  |         |       |        |        |
| LEAD CARBONATE HYDROXIDE                                              | 2 | 2 |    |    |   |   | 8 |   |   |   | PB |   | 4645  |         |       |        |        |
| LEAD FLAKE                                                            | 2 | 2 |    |    |   |   | 8 |   |   |   | PB |   | 4645  |         |       |        |        |
| LEAD SUBCARBONATE                                                     | 2 | 2 |    |    |   |   | 8 |   |   |   | PB |   | 4645  |         |       |        |        |
| WHITE LEAD                                                            | 2 | 2 |    |    |   |   | 8 |   |   |   | PB |   | 4645  |         |       |        |        |
| ETHANE, 1-BROMO-1,1-DICHLORO-,                                        | 2 | 3 | 1  | 2  |   |   |   |   |   |   |    |   | 1923  |         |       |        |        |
| ACETYL BROMIDE                                                        | 2 | 3 | 1  |    |   |   |   | 1 |   |   |    |   | 1032  |         |       |        |        |
| ACETYL BROMIDE                                                        | 2 | 3 | 1  |    |   |   |   | 1 |   |   |    |   | 19762 |         |       | 4980   |        |
| ACETYL BROMIDE                                                        | 2 | 3 | 1  |    |   |   |   | 1 |   |   |    |   | 1867  |         |       | 4980   |        |
| ACETIC ACID, BROMO-,                                                  | 2 | 3 | 1  |    |   |   |   | 2 |   |   |    |   | 2325  |         |       | 8765   | 1187   |
| ACETIC ACID, BROMO-,                                                  | 2 | 3 | 1  |    |   |   |   | 2 |   |   |    |   | 1151  |         |       |        |        |
| ETHANE, 1-CHLORO-1,1-DIBROMO-,                                        | 2 | 3 | 2  | 1  |   |   |   |   |   |   |    |   | 1924  |         |       |        |        |
| ETHANE, 1-CHLORO-1,2-DIBROMO-,                                        | 2 | 3 | 2  | 1  |   |   |   |   |   |   |    |   | 278   |         |       |        |        |
| ACETAMIDE, 2,2-DIBROMO-, M                                            | 2 | 3 | 2  |    |   |   | 1 | 1 |   |   |    |   | 11886 |         |       |        |        |
| ETHANE, 1,1,2-TRIBROMO-,                                              | 2 | 3 | 3  |    |   |   |   |   |   |   |    |   | 4633  |         |       | 1883   |        |
| ETHANOL, 2,2,2-TRIBROMO-,                                             | 2 | 3 | 3  |    |   |   |   | 1 |   |   |    |   | 18320 |         |       | 4224   |        |
| ETHANOL, 2,2,2-TRIBROMO-,                                             | 2 | 3 | 3  |    |   |   |   | 1 |   |   |    |   | 18320 |         |       | 4223   |        |
| ETHANOL, 2,2,2-TRIBROMO-,                                             | 2 | 3 | 3  |    |   |   |   | 1 |   |   |    |   | 18320 |         |       | 4224   |        |
| ETHANOL, 2,2,2-TRIBROMO-,                                             | 2 | 3 | 3  |    |   |   |   | 1 |   |   |    |   | 6430  |         |       |        |        |
| VINYL CHLORIDE                                                        | 2 | 3 |    | 1  |   |   |   |   |   |   |    |   | 1119  | 10973   |       |        |        |
| ACETYL CHLORIDE GAS                                                   | 2 | 3 |    | 1  |   |   |   | 1 |   |   |    |   | 6030  |         |       | 8780   |        |
| ACETYL CHLORIDE LIQUID                                                | 2 | 3 |    | 1  |   |   |   | 1 |   |   |    |   | 6029  |         |       | 8780   |        |
| ACETYL CHLORIDE                                                       | 2 | 3 |    | 1  |   |   |   | 1 |   |   |    |   | 6165  |         |       |        |        |
| ACETYL-D3 CHLORIDE                                                    | 2 | 3 |    | 1  |   |   |   | 1 |   |   |    |   | 42995 | 23995   |       |        |        |
| ACETIC ACID, CHLOROTHIO-,                                             | 2 | 3 |    | 1  |   |   |   | 1 |   | 1 |    |   | 856   |         |       |        |        |

| NAME                                         | C | H | Br | Cl | F | I | N | O | P | S  | Si | M | PRISM | GRATING | U.V.  | N.M.R. | S.T.A. |
|----------------------------------------------|---|---|----|----|---|---|---|---|---|----|----|---|-------|---------|-------|--------|--------|
| ** ACETIC ACID, CHLORO-                      | 2 | 3 |    | 1  |   |   |   | 2 |   |    |    |   | 5567  |         |       |        |        |
| ACETIC ACID, CHLORO-                         | 2 | 3 |    | 1  |   |   |   | 2 |   |    |    |   | 2094  | 21031   |       | 128    | 1135   |
| ACETIC ACID, CHLORO-, DIETHYLAMINE SALT      | 2 | 3 |    | 1  |   |   |   | 2 |   |    |    |   | 2389  |         |       |        |        |
| FORMIC ACID, CHLORO-, METHYL ESTER           | 2 | 3 |    | 1  |   |   |   | 2 |   |    |    |   | 13474 |         |       | 4463   |        |
| ACETAMIDE, DICHLORO-, K                      | 2 | 3 |    | 2  |   |   | 1 | 1 |   |    |    |   | 12551 | 18587   |       | 4967   |        |
| ETHANE, 1,1-DICHLORO-1-NITRO-                | 2 | 3 |    | 2  |   |   | 1 | 2 |   |    |    |   | 1263  | 226     | 377   | 10364  |        |
| ETHANE, 1,1,1-TRICHLORO-                     | 2 | 3 |    | 3  |   |   |   |   |   |    |    |   | 19461 |         |       | 9171   |        |
| ETHANE, 1,1,1-TRICHLORO-                     | 2 | 3 |    | 3  |   |   |   |   |   |    |    |   | 4474  |         |       |        |        |
| ETHANE, 1,1,2-TRICHLORO-                     | 2 | 3 |    | 3  |   |   |   |   |   |    |    |   | 4475  |         |       |        |        |
| ETHANE, 1,1,2-TRICHLORO-                     | 2 | 3 |    | 3  |   |   |   |   |   |    |    |   | 9721  |         |       | V 2    |        |
| ETHANOL, 2,2,2-TRICHLORO-                    | 2 | 3 |    | 3  |   |   |   |   |   |    |    |   | 37816 | 16810   |       | 8234   |        |
| CHLORAL                                      | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 158   |         |       | 10362  | 677    |
| CHLORAL, HYDRATE                             | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 158   |         |       | 10362  | 677    |
| CHLORAL HYDRATE                              | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 5423  |         |       |        |        |
| CHLORAL HYDRATE                              | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 5422  |         |       |        |        |
| CHLORAL HYDRATE                              | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 5423  |         |       |        |        |
| CHLORAL HYDRATE                              | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 5422  |         |       |        |        |
| 1,1-ETHANEDIOL, 2,2,2-TRICHLORO-             | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 5422  |         |       |        |        |
| 1,1-ETHANEDIOL, 2,2,2-TRICHLORO-             | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 5423  |         |       |        |        |
| 1,1-ETHANEDIOL, 2,2,2-TRICHLORO-             | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 5422  |         |       |        |        |
| 1,1-ETHANEDIOL, 2,2,2-TRICHLORO-             | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 158   |         |       | 10362  | 677    |
| SILANE, /TRICHLORO/VINYL-                    | 2 | 3 |    | 3  |   |   |   |   |   |    | 1  |   | 1227  | 15312   |       | V 3    |        |
| ETHYLENE, FLUORO-                            | 2 | 3 |    |    | 1 |   |   |   |   |    |    |   | 30864 |         |       |        |        |
| VINYL FLUORIDE                               | 2 | 3 |    |    | 1 |   |   |   |   |    |    |   | 30864 |         |       |        |        |
| ACETYL FLUORIDE /GAS/                        | 2 | 3 |    |    | 1 |   |   | 1 |   |    |    |   | 11912 |         |       |        |        |
| ACETIC ACID, FLUORO-                         | 2 | 3 |    |    | 1 |   |   | 2 |   |    |    |   | 17442 |         |       |        |        |
| ETHANOL, 2,2,2-TRIFLUORO-                    | 2 | 3 |    | 3  |   |   |   | 1 |   |    |    |   | 7368  |         |       | 11233  |        |
| ETHANOL, 2,2,2-TRIFLUORO-                    | 2 | 3 |    | 3  |   |   |   | 1 |   |    |    |   | 7368  |         |       | V 4    |        |
| ETHANOL, 2,2,2-TRIFLUORO-                    | 2 | 3 |    | 3  |   |   |   | 1 |   |    |    |   | 5995  |         |       |        |        |
| ACETALDEHYDE, TRIFLUORO-, HYDRATE            | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 23720 | 776     |       |        |        |
| 1,1-ETHANEDIOL, 2,2,2-TRIFLUORO-             | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 23720 | 776     |       |        |        |
| FLUORAL                                      | 2 | 3 |    | 3  |   |   |   | 2 |   |    |    |   | 23720 | 776     |       |        |        |
| ACETIC ACID, IODO-                           | 2 | 3 |    |    |   | 1 |   | 2 |   |    |    |   | 4562  | 21053   |       | 214    | 1438   |
| ACETONITRILE                                 | 2 | 3 |    |    |   |   | 1 |   |   |    |    |   | 269   |         |       | 9154   |        |
| GLYCOLONITRILE                               | 2 | 3 |    |    |   |   | 1 | 1 |   |    |    |   | 5141  |         |       |        |        |
| ISOCYANIC ACID, METHYL ESTER                 | 2 | 3 |    |    |   |   | 1 | 1 |   |    |    |   | 42701 | 23701   |       | 14305  |        |
| FORMIC ACID, CARBAMOYL-                      | 2 | 3 |    |    |   |   | 1 | 3 |   |    |    |   | 5854  |         |       |        |        |
| OXAMIC ACID                                  | 2 | 3 |    |    |   |   | 1 | 3 |   |    |    |   | 5854  |         |       |        |        |
| OXAMIC ACID /KBR/                            | 2 | 3 |    |    |   |   | 1 | 3 |   |    |    |   | 11350 |         |       |        |        |
| ** ISOTHIOCYANIC ACID, METHYL ESTER          | 2 | 3 |    |    |   |   | 1 |   |   | 1  |    |   | 3767  |         |       |        |        |
| ISOTHIOCYANIC ACID, METHYL ESTER             | 2 | 3 |    |    |   |   | 1 |   |   | 1  |    |   | 19922 | 18380   |       | 13697  |        |
| THIOCYANIC ACID, METHYL ESTER                | 2 | 3 |    |    |   |   | 1 |   |   | 1  |    |   | 20002 | 18386   |       | 7345   |        |
| TRIAZOLE, 1H-1,2,4-                          | 2 | 3 |    |    |   |   | 3 |   |   |    |    |   | 10626 |         |       | 9173   |        |
| TRIAZOLE, 2H-1,2,3-                          | 2 | 3 |    |    |   |   | 3 |   |   |    |    |   | 4114  |         |       |        |        |
| TRIAZOLE, 3H-1,2,4-                          | 2 | 3 |    |    |   |   | 3 |   |   |    |    |   | 38730 | 17730   |       | 9231   |        |
| V-TRIAZOLE                                   | 2 | 3 |    |    |   |   | 3 |   |   |    |    |   | 4114  |         |       |        |        |
| BICARBAMIDE                                  | 2 | 3 |    |    |   |   | 3 | 2 |   |    |    |   | 21374 |         |       |        |        |
| TRIAZOLIDINE-3,5-DIONE, 1,2,4-               | 2 | 3 |    |    |   |   | 3 | 2 |   |    |    |   | 21374 |         |       |        |        |
| URAZOLE                                      | 2 | 3 |    |    |   |   | 3 | 2 |   |    |    |   | 21374 |         |       |        |        |
| TRIAZOLE-3-SULFONIC ACID, 1H-1,2,4-          | 2 | 3 |    |    |   |   | 3 | 3 |   | 1  |    |   | 41586 | 22586   |       |        |        |
| S-TRIAZOLE-3-SULFONIC ACID                   | 2 | 3 |    |    |   |   | 3 | 3 |   | 1  |    |   | 41586 | 22586   |       |        |        |
| ** THIADIAZOLE, 2-AMINO-1,3,4-               | 2 | 3 |    |    |   |   | 3 |   |   | 1  |    |   | 1447  |         |       |        |        |
| ** THIADIAZOLE, 5-AMINO-1,2,4-               | 2 | 3 |    |    |   |   | 3 |   |   | 1  |    |   | 1448  |         |       |        |        |
| TRIAZOLE-3-THIOL, 1H-1,2,4-                  | 2 | 3 |    |    |   |   | 3 |   |   | 1  |    |   | 31684 | 7670    |       | 9170   |        |
| TRIAZOLINE-5-THIONE, DC2-1,2,4-              | 2 | 3 |    |    |   |   | 3 |   |   | 1  |    |   | 41571 | 22571   |       | 12472  |        |
| ** THIADIAZOLE, 2-AMINO-5-MERCAPTO-1,3,4-    | 2 | 3 |    |    |   |   | 3 |   |   | 2  |    |   | 1446  |         |       |        |        |
| THIADIAZOLE-2-THIOL, 1,3,4-, 5-AMINO-        | 2 | 3 |    |    |   |   | 3 |   |   | 2  |    |   | 24869 | 4997    |       |        |        |
| THIADIAZOLE-2/3H/-THIONE, 1,3,4-, 5-AMINO-   | 2 | 3 |    |    |   |   | 3 |   |   | 2  |    |   | 40459 | 20459   | 18135 |        |        |
| XANTHIC ACID, METHYL-, POTASSIUM SALT        | 2 | 3 |    |    |   |   |   | 1 | 2 | K  |    |   | 7346  |         |       |        |        |
| ACETIC ACID, SILVER SALT                     | 2 | 3 |    |    |   |   |   | 2 |   | AG |    |   | 14537 | 10035   |       |        |        |
| ACETIC ACID-D                                | 2 | 3 |    |    |   |   |   | 2 |   | D  |    |   |       |         |       | 10236  |        |
| ** ACETIC ACID, POTASSIUM SALT               | 2 | 3 |    |    |   |   |   | 2 |   | K  |    |   | 2038  |         |       |        |        |
| ACETIC ACID, POTASSIUM SALT                  | 2 | 3 |    |    |   |   |   | 2 |   | K  |    |   | 18338 | 10116   |       |        |        |
| POTASSIUM ACETATE                            | 2 | 3 |    |    |   |   |   | 2 |   | K  |    |   | 2038  |         |       |        |        |
| POTASSIUM ACETATE                            | 2 | 3 |    |    |   |   |   | 2 |   | K  |    |   |       |         |       | 4000   |        |
| ACETIC ACID, LITHIUM SALT, HYDRATE           | 2 | 3 |    |    |   |   |   | 2 |   | LI |    |   | 6640  |         |       |        |        |
| ACETIC ACID, SODIUM SALT                     | 2 | 3 |    |    |   |   |   | 2 |   | NA |    |   | 5784  |         |       |        |        |
| ACETIC ACID, SODIUM SALT                     | 2 | 3 |    |    |   |   |   | 2 |   | NA |    |   | 2039  |         |       |        |        |
| ACETIC ACID, SODIUM SALT                     | 2 | 3 |    |    |   |   |   | 2 |   | NA |    |   | 6198  | 515     |       | 6034   | 1576   |
| SODIUM ACETATE                               | 2 | 3 |    |    |   |   |   | 2 |   | NA |    |   | 6198  | 515     |       | 6034   | 1576   |
| SODIUM ACETATE                               | 2 | 3 |    |    |   |   |   | 2 |   | NA |    |   | 2039  |         |       |        |        |
| SODIUM ACETATE, TRIHYDRATE                   | 2 | 3 |    |    |   |   |   | 2 |   | NA |    |   | 13463 | 10020   |       |        |        |
| ACETIC ACID, THALLOUS SALT                   | 2 | 3 |    |    |   |   |   | 2 |   | TL |    |   | 36696 | 14685   |       | 7937   |        |
| THALLIUM ACETATE                             | 2 | 3 |    |    |   |   |   | 2 |   | TL |    |   | 36696 | 14685   |       | 7937   |        |
| ACETIC ACID, MERCAPTO-, SODIUM SALT          | 2 | 3 |    |    |   |   |   | 2 |   | NA |    |   | 7036  | 18151   |       | 6442   |        |
| ** ACETIC ACID, HYDROXY-, SODIUM SALT        | 2 | 3 |    |    |   |   |   | 3 |   | NA |    |   | 5978  |         |       |        |        |
| CARBONIC ACID, MONOMETHYL ESTER, SODIUM SALT | 2 | 3 |    |    |   |   |   | 3 |   | NA |    |   | 18340 | 10118   |       |        |        |
| GLYCOLIC ACID, SODIUM SALT                   | 2 | 3 |    |    |   |   |   | 3 |   | NA |    |   | 14475 |         |       | 9273   |        |
| ** GLYCOLIC ACID, SODIUM SALT                | 2 | 3 |    |    |   |   |   | 3 |   | NA |    |   | 5978  |         |       |        |        |
| ** PHOSPHONIC ACID, VINYL-, DISODIUM SALT    | 2 | 3 |    |    |   |   |   | 3 | 1 | NA |    |   | 1558  |         |       |        |        |

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|------------------------------------------------------------|---|---|----|----|---|---|---|---|---|---|----|----|-------|---------|-------|--------|--------|
| ACETIC ACID, DIHYDROXY-, SODIUM SALT                       | 2 | 3 |    |    |   |   |   | 4 |   |   |    | NA | 644   | 8077    |       | 8208   |        |
| ETHYLENE                                                   | 2 | 4 |    |    |   |   |   |   |   |   |    |    | 1131  |         |       |        |        |
| ETHANE, 1-BROMO-1-CHLORO-,                                 | 2 | 4 | 1  | 1  |   |   |   |   |   |   |    |    | 34474 | 15997   |       |        |        |
| ETHANE, 1-BROMO-2-CHLORO-,                                 | 2 | 4 | 1  | 1  |   |   |   |   |   |   |    |    | 5744  |         |       |        |        |
| ETHANE, 1-BROMO-2-CHLORO-,                                 | 2 | 4 | 1  | 1  |   |   |   |   |   |   |    |    | 4685  | 10983   |       | V 5    |        |
| ETHANE, 1-BROMO-2-CHLORO-,                                 | 2 | 4 | 1  | 1  |   |   |   |   |   |   |    |    | 4685  |         |       | 10930  |        |
| ACETAMIDE, N-BROMO-,                                       | 2 | 4 | 1  |    |   |   | 1 | 1 |   |   |    |    | 2173  | 18026   |       | 4961   |        |
| ETHANESULFONIC ACID, 2-BROMO-, SODIUM SALT                 | 2 | 4 | 1  |    |   |   |   | 3 | 1 |   |    | NA | 16550 |         |       | 12539  |        |
| ETHANE, 1,1-DIBROMO-,                                      | 2 | 4 | 2  |    |   |   |   |   |   |   |    |    | 956   |         |       |        |        |
| ETHANE, 1,1-DIBROMO-,                                      | 2 | 4 | 2  |    |   |   |   |   |   |   |    |    |       |         |       | V 370  |        |
| ETHANE, 1,2-DIBROMO-,                                      | 2 | 4 | 2  |    |   |   |   |   |   |   |    |    | 996   | 15294   |       | 7554   |        |
| ETHANE-1,1,2,2-D4, 1,2-DIBROMO-,                           | 2 | 4 | 2  |    |   |   |   |   |   |   |    |    | 38540 | 17524   |       |        |        |
| ETHYLENE DIBROMIDE                                         | 2 | 4 | 2  |    |   |   |   |   |   |   |    |    | 996   | 15294   |       | 7554   |        |
| ETHANE, 1-CHLORO-2-IODO-,                                  | 2 | 4 |    | 1  | 1 |   |   |   |   |   |    |    | 2585  |         |       |        |        |
| ACETAMIDE, A-CHLORO-,                                      | 2 | 4 |    | 1  |   |   |   | 1 | 1 |   |    |    | 287   |         |       |        |        |
| ACETAMIDE, 2-CHLORO-,                                      | 2 | 4 |    | 1  |   |   |   | 1 | 1 |   |    |    | 2975  | 15402   |       | 9187   | 1300   |
| ETHANE, 1-CHLORO-1-NITRO-,                                 | 2 | 4 |    | 1  |   |   |   | 1 | 2 |   |    |    | 944   | 190     | 292   | 9145   |        |
| ETHANESULFONIC ACID, 1-CHLORO-, SODIUM SALT                | 2 | 4 |    | 1  |   |   |   |   | 3 | 1 |    | NA | 3234  |         |       |        |        |
| ETHANESULFONIC ACID, 2-CHLORO-, SODIUM SALT, HYDRATE       | 2 | 4 |    | 1  |   |   |   |   | 3 | 1 |    | NA | 5064  | 8363    |       |        |        |
| ETHANE, 1,1-DICHLORO-,                                     | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 3205  |         |       | J 118  |        |
| ETHANE, 1,1-DICHLORO-,                                     | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 6336  |         |       |        |        |
| ETHANE, 1,1-DICHLORO-,                                     | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 4472  |         |       |        |        |
| ETHANE, 1,2-DICHLORO-,                                     | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 4473  |         |       |        |        |
| ETHANE, 1,2-DICHLORO-,                                     | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 35    | 20      |       | 7304   | 613    |
| ETHANOL, 2,2-DICHLORO-,                                    | 2 | 4 |    | 2  |   |   |   | 1 |   |   |    |    | 17127 |         |       | 9347   |        |
| ETHER, BIS/CHLOROMETHYL/,                                  | 2 | 4 |    | 2  |   |   |   | 1 |   |   |    |    | 5196  |         |       | J 120  |        |
| METHANOL, CHLORO-, SULFATE                                 | 2 | 4 |    | 2  |   |   |   | 4 |   | 1 |    |    | 25749 |         |       |        |        |
| SULFURIC ACID, BIS/CHLOROMETHYL/ ESTER                     | 2 | 4 |    | 2  |   |   |   | 4 |   | 1 |    |    | 25749 |         |       |        |        |
| 1-ETHANETHIOL, 2,2-DICHLORO-, SULFIDE, BIS/CHLOROMETHYL/,  | 2 | 4 |    | 2  |   |   |   |   |   | 1 |    |    | 11593 |         |       | 9775   |        |
| ETHANE, 1,2-BIS/TRICHLORO-SILYL-,                          | 2 | 4 |    | 6  |   |   |   |   |   | 2 |    |    | 6220  |         |       |        |        |
| ACETAMIDE, FLUORO-,                                        | 2 | 4 |    |    | 1 | 1 |   |   |   |   |    |    | 19489 |         |       | 2180   |        |
| ETHANE, 1,1-DIFLUORO-,                                     | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 30866 | 6838    |       |        |        |
| GENETRON 100                                               | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 30866 | 6838    |       |        |        |
| GENETRON 152A                                              | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 30866 | 6838    |       |        |        |
| ETHYLAMINE, 2,2,2-TRIFLUORO-,                              | 2 | 4 |    | 3  |   | 1 |   |   |   |   |    |    | 30310 | 6305    |       |        |        |
| ETHYLAMINE, 2,2,2-TRIFLUORO-, HCL                          | 2 | 4 |    | 3  |   | 1 |   |   |   |   |    |    | 7339  |         |       | 7070   |        |
| ACETIC ACID, TRIFLUORO-, AMMONIUM SALT                     | 2 | 4 |    | 3  |   | 1 | 2 |   |   |   |    |    | 20674 |         |       |        |        |
| ACETAMIDE, A-IODO-,                                        | 2 | 4 |    |    | 1 | 1 | 1 |   |   |   |    |    | 1827  |         |       |        |        |
| ACETAMIDE, 2-IODO-,                                        | 2 | 4 |    |    | 1 | 1 | 1 |   |   |   |    |    | 26608 | 2373    |       | 1754   |        |
| ETHANE, 1,2-DIIODO-,                                       | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 22906 | 15931   |       | 8152   |        |
| ETHANE, 1,2-DIIODO-,                                       | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 1306  |         |       |        |        |
| ETHANE, 1,2-DIIODO-,                                       | 2 | 4 |    | 2  |   |   |   |   |   |   |    |    | 1943  |         |       |        |        |
| GLYCINONITRILE, SULFATE                                    | 2 | 4 |    |    | 2 |   |   |   |   |   |    |    | 24142 |         |       |        |        |
| GLYOXAL, DIOXIME                                           | 2 | 4 |    |    | 2 | 2 |   |   |   |   |    |    | 24880 | 5992    | 18540 | 9892   |        |
| GLYOXIME                                                   | 2 | 4 |    |    | 2 | 2 |   |   |   |   |    |    | 24880 | 5992    | 18540 | 9892   |        |
| HYDRAZINE, 1,2-DIFORMYL-,                                  | 2 | 4 |    |    | 2 | 2 |   |   |   |   |    |    | 24470 | 4735    |       | 9431   |        |
| 1,2-HYDRAZINEDICARBOXYALDEHYDE                             | 2 | 4 |    |    | 2 | 2 |   |   |   |   |    |    | 24470 | 4735    |       | 9431   |        |
| OXAMIDE                                                    | 2 | 4 |    |    | 2 | 2 |   |   |   |   |    |    | 479   | 15255   |       |        |        |
| UREA, FORMYL-, K                                           | 2 | 4 |    |    | 2 | 2 |   |   |   |   |    |    | 12530 | 18277   |       |        |        |
| ACETAMIDE, 2-AMINO-2,2-DISULFO-, DIPOTASSIUM SALT          | 2 | 4 |    |    | 2 | 7 | 2 |   |   | K |    |    | 28048 | 3765    |       |        |        |
| METHANEDISULFONIC ACID, AMINO-CARBAMOYL-, DIPOTASSIUM SALT | 2 | 4 |    |    |   | 2 | 7 | 2 |   | K |    |    | 28048 | 3765    |       |        |        |
| OXAMIDE, DITHIO-,                                          | 2 | 4 |    |    | 2 |   |   | 2 |   |   |    |    | 1375  |         |       |        |        |
| OXAMIDE, DITHIO-,                                          | 2 | 4 |    |    | 2 |   |   | 2 |   |   |    |    | 15722 | 18680   | 4733  |        |        |
| AMITROLE /AMITROLE T/                                      | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 8667  | 21258   |       | 9499   |        |
| AMIZOL /THE HERBICIDE/                                     | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 8667  | 21258   |       | 9499   |        |
| CYANAMIDE, AMIDINO-,                                       | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 13632 | 21016   | 18271 | 12803  |        |
| CYANAMIDE, AMIDINO-,                                       | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 497   | 21016   | 18271 | 12803  | 808    |
| DICYANODIAMIDE                                             | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 497   | 21016   | 18271 | 12803  | 808    |
| DICYANODIAMIDE                                             | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 13632 | 21016   | 18271 | 12803  |        |
| GUANICINE, CYANO-,                                         | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 13632 | 21016   | 18271 | 12803  |        |
| GUANIDINE, CYANO-,                                         | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 497   | 21016   | 18271 | 12803  | 808    |
| 1H-TETRAZOLE, 1-METHYL-,                                   | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 2516  |         |       |        |        |
| TRIAZOLE, 1H-1,2,4-, 3-AMINO-, LACTATE                     | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 2778  |         |       | 13594  |        |
| TRIAZOLE, 1H-1,2,4-, 3-AMINO-, 2,2,3-TRICHLOROPROPIONATE   | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 3846  |         |       |        |        |
| TRIAZOLE, 3-AMINO-, 1H-1,2,4-, HCL                         | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 12533 | 18279   |       | 5227   |        |
| TRIAZOLE, 3-AMINO-, 1H-1,2,4-, NITRATE                     | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 12534 | 18280   |       | 5226   |        |
| TRIAZOLE, 3-AMINO-, 1H-1,2,4-, PHOSPHATE, HEMIHYDRATE      | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 12537 | 18586   |       | 5222   |        |
| TRIAZOLE, 3-AMINO-, 1H-1,2,4-, SULFATE, DIHYDRATE K        | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 12521 | 18271   |       | 4964   |        |
| TRIAZOLE, 4-AMINO-4H-1-2-4-,                               | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 10536 | 18250   |       |        |        |
| S-TRIAZOLE, 3-AMINO-,                                      | 2 | 4 |    |    | 4 |   |   |   |   |   |    |    | 8667  | 21258   |       | 9499   |        |
| DIIMIDE, DICARBAMOYL-,                                     | 2 | 4 |    |    | 4 | 2 |   |   |   |   |    |    | 24175 | 816     | 8466  |        |        |
| FORMAMIDE, 1,1'-AZOBIS-,                                   | 2 | 4 |    |    | 4 | 2 |   |   |   |   |    |    | 6377  |         |       |        |        |
| FORMAMIDE, 1,1PR-AZOBIS-,                                  | 2 | 4 |    |    | 4 | 2 |   |   |   |   |    |    | 24175 | 816     | 8466  |        |        |
| FORMAMIDE, 1,1PR-AZODI-,                                   | 2 | 4 |    |    | 4 | 2 |   |   |   |   |    |    | 929   |         |       |        |        |
| TRIAZOLE-3-SULFONAMIDE, 1H-1,2,4-,                         | 2 | 4 |    |    | 4 | 2 |   |   |   | 1 |    |    | 41602 | 22602   |       |        |        |
| THIADIAZOLF, 2,5-DIAMINO-1,3,4-, HYDROCHLORIDE             | 2 | 4 |    |    | 4 |   |   |   |   | 1 |    |    | 19479 | 24864   | 6377  |        |        |

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| S-TRIAZOLE-5-THIOL, 3-AMINO-,        | 2 | 4 |    |    |   |   | 4 |   |   | 1 |    |    | 35687 | 13683   |      |        |        |
| ACETALDEHYDE GAS                     | 2 | 4 |    |    |   |   |   | 1 |   |   |    |    | 5824  |         |      | 10493  |        |
| ACETALDEHYDE GAS                     | 2 | 4 |    |    |   |   |   | 1 |   |   |    |    | 5824  |         |      | V 6    |        |
| ACETALDEHYDE                         | 2 | 4 |    |    |   |   |   | 1 |   |   |    |    | 1301  |         |      |        |        |
| ACETALDEHYDE                         | 2 | 4 |    |    |   |   |   | 1 |   |   |    |    | 5645  |         |      |        |        |
| ACETALDEHYDE LIQUID                  | 2 | 4 |    |    |   |   |   | 1 |   |   |    |    | 5823  |         |      | 10493  |        |
| ACETALDEHYDE, SODIUM BISULFITE K     | 2 | 4 |    |    |   |   |   | 1 |   |   |    |    | 9750  |         |      | 6489   |        |
| ETHYLENE OXIDE                       | 2 | 4 |    |    |   |   |   | 1 |   |   |    |    | 1109  |         |      |        |        |
| OXIRANE                              | 2 | 4 |    |    |   |   |   | 1 |   |   |    |    | 1109  |         |      |        |        |
| ACETIC ACID, THIO-,                  | 2 | 4 |    |    |   |   |   |   | 1 |   |    |    | 417   |         |      | V 7    |        |
| ACETIC ACID                          | 2 | 4 |    |    |   |   |   | 2 |   |   |    |    | 76    |         |      | V 8    | 639    |
| ACETIC ACID                          | 2 | 4 |    |    |   |   |   | 2 |   |   |    |    | 4819  |         |      |        |        |
| ACETIC ACID, CMPD WITH BUTYLAMINE,   | 2 | 4 |    |    |   |   |   | 2 |   |   |    |    | 7918  |         |      |        |        |
| HYDRATED                             |   |   |    |    |   |   |   |   |   |   |    |    |       |         |      |        |        |
| ACETIC ACID-D                        | 2 | 4 |    |    |   |   |   | 2 |   |   |    |    | 693   |         |      | 10236  |        |
| FORMIC ACID, METHYL ESTER            | 2 | 4 |    |    |   |   |   | 2 |   |   |    |    | 693   |         |      | V 9    |        |
| FORMIC ACID, METHYL ESTER            | 2 | 4 |    |    |   |   |   | 2 |   |   |    |    | 17434 |         |      | 10187  |        |
| GLYCOLALDEHYDE                       | 2 | 4 |    |    |   |   |   | 2 |   |   |    |    | 316   | 21703   |      | 10969  |        |
| ACETIC ACID, MERCAPTO-,              | 2 | 4 |    |    |   |   |   | 2 |   | 1 |    |    | 7248  | 21703   |      | 10969  |        |
| ACETIC ACID, MERCAPTO-,              | 2 | 4 |    |    |   |   |   | 2 |   | 1 |    |    | 7248  | 21703   |      | 10969  |        |
| GLYCOLIC ACID, 2-THIO-,              | 2 | 4 |    |    |   |   |   | 2 |   | 1 |    |    | 316   | 21703   |      | 10969  |        |
| GLYCOLIC ACID, 2-THIO-,              | 2 | 4 |    |    |   |   |   | 2 |   | 1 |    |    | 7248  | 21703   |      | 10969  |        |
| THIOGLYCOLIC ACID                    | 2 | 4 |    |    |   |   |   | 2 |   | 1 |    |    | 5829  | 18465   |      | 6411   | 1513   |
| ACETIC ACID, HYDROXY-,               | 2 | 4 |    |    |   |   |   | 3 |   |   |    |    | 5829  | 18465   |      | 6411   | 1513   |
| GLYCOLIC ACID                        | 2 | 4 |    |    |   |   |   | 3 |   |   |    |    | 6254  |         |      |        |        |
| GLYCOLIC ACID                        | 2 | 4 |    |    |   |   |   | 3 |   |   |    |    | 4357  |         |      |        |        |
| ETHYLENE SULFITE                     | 2 | 4 |    |    |   |   |   | 3 |   | 1 |    |    | 19601 |         |      | V 371  |        |
| ETHYLENE SULFITE                     | 2 | 4 |    |    |   |   |   | 3 |   | 1 |    |    | 11800 | 15747   |      | 7847   |        |
| ACETIC ACID, DIHYDROXY-,             | 2 | 4 |    |    |   |   |   | 4 |   |   |    |    |       |         |      |        |        |
| 1,2-ETHANEDISULFONIC ACID, DISODIUM  | 2 | 4 |    |    |   |   |   | 6 |   | 2 |    | NA | 1353  |         |      |        |        |
| SALT                                 |   |   |    |    |   |   |   |   |   |   |    |    |       |         |      |        |        |
| 1,2-ETHANEDISULFONIC ACID, 1,2-DI-   | 2 | 4 |    |    |   |   |   | 8 |   | 2 |    | NA | 37797 | 16791   |      |        |        |
| HYDROXY-, DISODIUM SALT, MONOHYDRATE |   |   |    |    |   |   |   |   |   |   |    |    |       |         |      |        |        |
| GLYOXAL, CMPD WITH SODIUM BISULFITE  | 2 | 4 |    |    |   |   |   | 8 |   | 2 |    | NA | 37797 | 16791   |      |        |        |
| /1 TO 2/, MONOHYDRATE                |   |   |    |    |   |   |   |   |   |   |    |    |       |         |      |        |        |
| ETHYLENE SULFIDE                     | 2 | 4 |    |    |   |   |   |   |   | 1 |    |    | 5947  |         |      |        |        |
| THIIRANE                             | 2 | 4 |    |    |   |   |   |   |   | 1 |    |    | 5947  |         |      |        |        |
| MERCURY, BROMOETHYL-,                | 2 | 5 | 1  |    |   |   |   |   |   |   |    | HG | 7958  | 24067   |      |        |        |
| ETHANE, BROMO-,                      | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 4631  | 10951   |      | V 225  |        |
| ETHANE, BROMO-,                      | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 4632  | 10951   |      | V 10   |        |
| ETHANE, BROMO-,                      | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 4631  | 10951   |      | V 225  |        |
| ETHANE, BROMO-,                      | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 4632  |         |      | V 225  |        |
| ETHANE, BROMO-,                      | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 4631  |         |      | V 10   |        |
| ETHANE, BROMO-,                      | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 4632  | 10951   |      | V 10   |        |
| ETHANE, BROMO-,                      | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 4632  |         |      | V 225  |        |
| ETHANE, BROMO-,                      | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 5930  |         |      |        |        |
| ETHYL BROMIDE                        | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 5930  |         |      |        |        |
| ETHANOL, 2-BROMO-,                   | 2 | 5 | 1  |    |   |   |   | 1 |   |   |    |    | 4724  |         |      | 9168   |        |
| MERCURY, CHLOROETHYL-,               | 2 | 5 | 1  |    |   |   |   |   |   |   |    | HG | 7961  | 18512   |      | 6912   |        |
| ETHANE, CHLORO-,                     | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 533   |         |      | V 11   |        |
| ETHYL CHLORIDE                       | 2 | 5 | 1  |    |   |   |   |   |   |   |    |    | 533   |         |      | V 11   |        |
| ETHYLAMINE, 2,2,2-TRIFLUORO-,        | 2 | 5 | 1  | 3  |   |   | 1 |   |   |   |    |    | 5716  |         |      |        |        |
| HYDROCHLORIDE                        |   |   |    |    |   |   |   |   |   |   |    |    |       |         |      |        |        |
| ACETIC ACID, CHLORO-, HYDRAZIDE,     | 2 | 5 | 1  |    |   |   | 2 | 1 |   |   |    |    | 41551 | 22551   |      | 12282  |        |
| MONOHYDROCHLORIDE                    |   |   |    |    |   |   |   |   |   |   |    |    |       |         |      |        |        |
| ACETIC ACID, 2-CHLORO-, HYDRAZIDE    | 2 | 5 | 1  |    |   |   | 2 | 1 |   |   |    |    | 2335  |         |      |        |        |
| HYDRAZINE, CHLOROACETYL-,            | 2 | 5 | 1  |    |   |   | 2 | 1 |   |   |    |    | 2335  |         |      |        |        |
| ETHANOL, 2-CHLORO-,                  | 2 | 5 | 1  |    |   |   |   | 1 |   |   |    |    | 73    |         |      | 10320  |        |
| ETHANOL, 2-CHLORO-,                  | 2 | 5 | 1  |    |   |   |   | 1 |   |   |    |    | 73    |         |      | V 12   |        |
| ETHER, CHLOROMETHYL METHYL,          | 2 | 5 | 1  |    |   |   |   | 1 |   |   |    |    | 9682  |         |      | 9193   |        |
| ETHER, CHLOROMETHYL METHYL,          | 2 | 5 | 1  |    |   |   |   | 1 |   |   |    |    | 2397  |         |      |        |        |
| ETHER, CHLOROMETHYL METHYL,          | 2 | 5 | 1  |    |   |   |   | 1 |   |   |    |    | 6530  |         |      |        |        |
| ETHER, CHLOROMETHYL METHYL,          | 2 | 5 | 1  |    |   |   |   | 1 |   |   |    |    | 6991  |         |      |        |        |
| ETHANESULFONYL CHLORIDE              | 2 | 5 | 1  |    |   |   |   | 2 |   | 1 |    |    |       |         |      | 1915   |        |
| ETHYL PHOSPHORODICHLORIDOTHIOATE     | 2 | 5 | 2  |    |   |   | 1 | 1 |   | 1 |    |    | 28863 | 4565    |      | 860    |        |
| ETHYL PHOSPHORODICHLORIDATE          | 2 | 5 | 2  |    |   |   |   | 2 | 1 |   |    |    | 27952 |         |      | 814    |        |
| ETHYL PHOSPHORODICHLORIDATE          | 2 | 5 | 2  |    |   |   |   | 2 | 1 |   |    |    | 27952 | 3677    |      | 9351   |        |
| PHOSPHONOSELENOIC DICHLORIDE,        | 2 | 5 | 2  |    |   |   |   |   | 1 |   |    | SE | 3920  |         |      |        |        |
| ETHYL-,                              |   |   |    |    |   |   |   |   |   |   |    |    |       |         |      |        |        |
| PHOSPHONOTHIOIC DICHLORIDE, ETHYL-,  | 2 | 5 | 2  |    |   |   |   | 1 | 1 |   |    |    | 21805 |         |      |        |        |
| SILANE, ETHYLTRICHLORO-,             | 2 | 5 | 3  |    |   |   |   |   |   | 1 |    |    | 24004 |         |      | 9152   |        |
| ETHANOL, 2-FLUORO-,                  | 2 | 5 |    |    |   |   | 1 |   |   |   |    |    | 270   | 24511   |      | 8243   |        |
| ETHANESULFONYL FLUORIDE              | 2 | 5 |    |    |   |   | 1 |   |   | 2 | 1  |    | 3232  |         |      |        |        |
| ETHANE, IODO-,                       | 2 | 5 |    |    |   |   |   |   |   |   |    |    | 57    |         |      | 10202  |        |
| ETHANE, IODO-,                       | 2 | 5 |    |    |   |   | 1 |   |   |   |    |    | 57    |         |      | V 13   | 627    |
| ETHYL IODIDE                         | 2 | 5 |    |    |   |   | 1 |   |   |   |    |    | 57    |         |      | 10202  |        |
| ETHYL IODIDE                         | 2 | 5 |    |    |   |   | 1 |   |   |   |    |    | 57    |         |      | V 13   | 627    |
| AZIRIDINE                            | 2 | 5 |    |    |   |   |   | 1 |   |   |    |    | 11399 |         |      | V 372  |        |
| ETHYLENEIMINE                        | 2 | 5 |    |    |   |   |   | 1 |   |   |    |    | 11399 |         |      | V 372  |        |
| ETHYLENIMINE                         | 2 | 5 |    |    |   |   |   | 1 |   |   |    |    | 2839  |         |      |        |        |
| ACETALDEHYDE, OXIME                  | 2 | 5 |    |    |   |   |   | 1 | 1 |   |    |    | 15391 |         |      | V 373  |        |
| ACETALDEHYDE, OXIME                  | 2 | 5 |    |    |   |   |   | 1 | 1 |   |    |    | 15391 |         |      | 12342  |        |
| ACETAMIDE                            | 2 | 5 |    |    |   |   |   | 1 | 1 |   |    |    | 13207 | 15005   |      | 4280   |        |
| ACETAMIDE                            | 2 | 5 |    |    |   |   |   | 1 | 1 |   |    |    | 69    | 15005   |      | 4280   | 633    |
| ACETAMIDE                            | 2 | 5 |    |    |   |   |   | 1 | 1 |   |    |    | 2552  |         |      |        |        |
| ACETAMIDE /MELT/                     | 2 | 5 |    |    |   |   |   | 1 | 1 |   |    |    | 2217  | 15005   |      | 4280   | 1163   |
| ACETAMIDE, MONONITRATE               | 2 | 5 |    |    |   |   |   | 1 | 1 |   |    |    | 7059  |         |      |        |        |
| FORMAMIDE, N-METHYL-,                | 2 | 5 |    |    |   |   |   | 1 | 1 |   |    |    | 10961 |         |      | 9350   |        |



# SADTLER STANDARD SPECTRA

## TOTAL SPECTRA MOLECULAR FORMULA INDEX - 1972

| NAME                                                         | C | H | N | O | P | S | SI | M | PRISM | GRATING | U.V.  | N.M.R. | D.T.A. |
|--------------------------------------------------------------|---|---|---|---|---|---|----|---|-------|---------|-------|--------|--------|
| ACETAMIDE, 2-MERCAPTO-,                                      | 2 | 5 | 1 | 1 |   |   |    |   | 4587  |         |       |        |        |
| ACETAMIDE, 2-MERCAPTO-,                                      | 2 | 5 | 1 | 1 |   |   |    |   | 34968 | 12932   |       |        |        |
| GLYCINE, THIO-,                                              | 2 | 5 | 1 | 1 |   |   |    |   | 4602  |         |       |        |        |
| ACETIC ACID, AMINO-,                                         | 2 | 5 | 1 | 2 |   |   |    |   | 5811  |         |       |        |        |
| ACETIC ACID, AMINO-,                                         | 2 | 5 | 1 | 2 |   |   |    |   | 6475  | 18130   |       | 6843   |        |
| ACETIC ACID, AMINO-, HYDROCHLORIDE                           | 2 | 5 | 1 | 2 |   |   |    |   | 3660  |         |       |        |        |
| CARBAMIC ACID, METHYL ESTER                                  | 2 | 5 | 1 | 2 |   |   |    |   | 12494 | 607     |       | 5240   |        |
| ETHANE, NITRO-,                                              | 2 | 5 | 1 | 2 |   |   |    |   | 7     | 5       |       | 4      | 599    |
| ETHANE, NITRO-,                                              | 2 | 5 | 1 | 2 |   |   |    |   | 4296  |         |       |        |        |
| ETHYL NITRITE                                                | 2 | 5 | 1 | 2 |   |   |    |   |       |         |       | 374    |        |
| GLYCINE                                                      | 2 | 5 | 1 | 2 |   |   |    |   | 2361  |         |       |        |        |
| GLYCINE                                                      | 2 | 5 | 1 | 2 |   |   |    |   | 5811  |         |       |        |        |
| GLYCINE                                                      | 2 | 5 | 1 | 2 |   |   |    |   | 6475  | 18130   |       | 6843   |        |
| GLYCINE, HYDROCHLORIDE                                       | 2 | 5 | 1 | 2 |   |   |    |   | 13023 |         |       |        |        |
| GLYCINE, HYDROCHLORIDE                                       | 2 | 5 | 1 | 2 |   |   |    |   | 13024 | 18596   |       | 4458   |        |
| GLYCINE, HYDROCHLORIDE                                       | 2 | 5 | 1 | 2 |   |   |    |   | 3660  |         |       |        |        |
| GLYCINE, SULFATE /3 TO 1/                                    | 2 | 5 | 1 | 2 |   |   |    |   | 42124 | 23124   |       | 13880  |        |
| GLYCOLAMIDE                                                  | 2 | 5 | 1 | 2 |   |   |    |   | 6636  |         |       |        |        |
| ACETIC ACID, AMINOXY-, HEMIHYDRO-<br>CHLORIDE                | 2 | 5 | 1 | 3 |   |   |    |   | 2103  |         |       |        |        |
| ETHANOL, 2-NITRO-,                                           | 2 | 5 | 1 | 3 |   |   |    |   | 36386 | 14377   |       |        |        |
| ETHYL NITRATE                                                | 2 | 5 | 1 | 3 |   |   |    |   | 6319  |         |       |        |        |
| ETHYL NITRATE                                                | 2 | 5 | 1 | 3 |   |   |    |   | 6990  |         |       |        |        |
| ACETAMIDE, THIO-,                                            | 2 | 5 | 1 | 1 |   |   |    |   | 5970  | 8440    | 11494 | 10254  | 1541   |
| SEMICARBAZIDE, 1-FORMYL-3-THIO-,                             | 2 | 5 | 3 | 1 |   |   |    |   | 40606 | 20606   |       |        |        |
| BIURET                                                       | 2 | 5 | 3 | 2 |   |   |    |   | 12988 | 21313   |       |        |        |
| BIURET, HYDRATE                                              | 2 | 5 | 3 | 2 |   |   |    |   | 5678  |         |       |        |        |
| OXAMIC ACID, HYDRAZIDE                                       | 2 | 5 | 3 | 2 |   |   |    |   | 24467 | 4732    |       |        |        |
| SEMIOXAMIDE                                                  | 2 | 5 | 3 | 2 |   |   |    |   | 24467 | 4732    |       |        |        |
| UREA, 1-CARBAMOYL HYDRATE                                    | 2 | 5 | 3 | 2 |   |   |    |   | 5678  |         |       |        |        |
| UREA, 1-METHYL-1-NITROSO-,                                   | 2 | 5 | 3 | 2 |   |   |    |   | 6832  |         |       |        |        |
| BIURET, 2,4-DITHIO-,                                         | 2 | 5 | 3 | 2 |   |   |    |   | 2225  | 306     | 597   |        | 1166   |
| BIURET, 2,4-DITHIO-, K                                       | 2 | 5 | 3 | 2 |   |   |    |   | 12983 | 306     | 597   |        |        |
| GUANAZOLE                                                    | 2 | 5 | 5 | 5 |   |   |    |   | 19946 | 21468   | 7836  | 13668  |        |
| THIAZOLE, 3,5-DIAMINO-1H-1,2,4-,                             | 2 | 5 | 5 | 5 |   |   |    |   | 19946 | 21468   | 7836  | 13668  |        |
| THIAZOLE, 3,5-DIAMINO-,                                      | 2 | 5 | 5 | 5 |   |   |    |   | 19946 | 21468   | 7836  | 13668  |        |
| GUANIDINE, 1-METHYL-3-NITRO-1-<br>NITROSO-,                  | 2 | 5 | 5 | 3 |   |   |    |   | 16655 | 21386   | 7836  | 9194   |        |
| DIOXAPHOSPHOLANE, 1,3,2-, 2-<br>HYDROXY-,                    | 2 | 5 | 3 | 1 |   |   |    |   | 24301 |         |       |        |        |
| ETHYLENE PHOSPHITE                                           | 2 | 5 | 3 | 1 |   |   |    |   | 24301 |         |       |        |        |
| ETHYL POTASSIUM SULFATE                                      | 2 | 5 | 4 | 1 |   |   |    |   | 13411 |         |       |        |        |
| POTASSIUM ETHYL SULFATE                                      | 2 | 5 | 4 | 1 |   |   |    |   | 13411 |         |       |        |        |
| ACETALDEHYDE, BISULFITE, SODIUM<br>SALT                      | 2 | 5 | 4 | 1 |   |   |    |   | 5766  |         |       |        |        |
| ETHANESULFONIC ACID, 1-HYDROXY-,<br>SODIUM SALT              | 2 | 5 | 4 | 1 |   |   |    |   | 9750  |         |       | 6489   |        |
| ETHANESULFONIC ACID, 2-HYDROXY-,<br>SODIUM SALT              | 2 | 5 | 4 | 1 |   |   |    |   | 17524 |         |       | 6514   |        |
| ETHANESULFONIC ACID, 2-HYDROXY-,<br>SODIUM SALT              | 2 | 5 | 4 | 1 |   |   |    |   | 2287  |         |       |        |        |
| ISETHIONIC ACID, SODIUM SALT                                 | 2 | 5 | 4 | 1 |   |   |    |   | 2287  |         |       |        |        |
| ISETHIONIC ACID, SODIUM SALT                                 | 2 | 5 | 4 | 1 |   |   |    |   | 17524 |         |       | 6514   |        |
| ACETIC ACID, PHOSPHONO-,                                     | 2 | 5 | 5 | 1 |   |   |    |   | 6855  |         |       |        |        |
| ETHANE                                                       | 2 | 6 |   |   |   |   |    |   | 7989  |         |       |        |        |
| ETHYLAMINE, 2-BROMO-, HYDROBROMIDE                           | 2 | 6 | 1 | 1 |   |   |    |   | 5453  | 21064   |       | 6806   |        |
| ETHYLAMINE, 2-BROMO-, HYDROBROMIDE                           | 2 | 6 | 1 | 1 |   |   |    |   | 1249  |         |       |        |        |
| ETHYLAMINE, 2-CHLORO-,<br>HYDROCHLORIDE                      | 2 | 6 | 1 | 1 |   |   |    |   | 24369 | 948     |       | 9352   |        |
| SULFAMOYL CHLORIDE, DIMETHYL-,                               | 2 | 6 | 1 | 2 |   |   |    |   | 5108  | 18367   |       | 816    |        |
| PHOSPHONOCHLORIDOTHIOIC ACID,<br>METHYL-, O-METHYL ESTER     | 2 | 6 | 1 | 1 |   |   |    |   | 21801 |         |       |        |        |
| PHOSPHOCHLORIDOTHIOIC ACID, O,O-<br>DIMETHYL ESTER           | 2 | 6 | 1 | 2 |   |   |    |   | 14547 |         |       |        |        |
| GERMANE, DICHLORODIMETHYL-,<br>PHOSPHONIC DICHLORIDE,        | 2 | 6 | 2 | 1 |   |   |    |   | 1214  |         |       | 1441   |        |
| DIMETHYL-,                                                   | 2 | 6 | 2 | 1 |   |   |    |   | 3191  |         |       |        |        |
| PHOSPHONAMIDOTHIOIC DICHLORIDE,<br>DIMETHYL-,                | 2 | 6 | 2 | 1 |   |   |    |   |       |         |       |        |        |
| SILANE, DICHLORODIMETHYL-,                                   | 2 | 6 | 2 | 1 |   |   |    |   | 5297  |         |       |        |        |
| SILANE, DICHLORODIMETHYL-,                                   | 2 | 6 | 2 | 1 |   |   |    |   | 4730  |         |       |        |        |
| DISILANE, 1,2-DIMETHYL-1,1,2,2-<br>TETRACHLORO-,             | 2 | 6 | 4 | 2 |   |   |    |   | 6207  |         |       |        |        |
| PHOSPHOROFLUORIDIC ACID, DIMETHYL<br>ESTER                   | 2 | 6 | 1 | 3 |   |   |    |   | 511   |         |       |        |        |
| PHOSPHORANE, /DIMETHYLAMINO/TETRA-<br>FLUORO-, HYDROCHLORIDE | 2 | 6 | 4 | 1 |   |   |    |   |       |         |       | 6337   |        |
| LITHIUM, DIMETHYLAMINO-, M                                   | 2 | 6 | 1 |   |   |   |    |   | 11904 |         |       |        |        |
| ACETAMIDINE, ACETATE                                         | 2 | 6 | 2 |   |   |   |    |   | 21347 |         |       |        |        |
| ACETAMIDINE, HYDROCHLORIDE                                   | 2 | 6 | 2 |   |   |   |    |   | 5765  |         |       |        |        |
| ACETAMIDINE, HYDROCHLORIDE                                   | 2 | 6 | 2 |   |   |   |    |   | 6474  |         |       |        |        |
| ACETAMIDINE, HYDROCHLORIDE                                   | 2 | 6 | 2 |   |   |   |    |   | 5750  |         |       |        |        |
| ACETAMIDE, 2-AMINO-, MONOHYDRO-<br>CHLORIDE                  | 2 | 6 | 2 | 1 |   |   |    |   | 38229 | 17216   |       | 9497   |        |
| ACETIC ACID, HYDRAZIDE S                                     | 2 | 6 | 2 | 1 |   |   |    |   | 11891 |         |       | 9165   |        |
| DIMETHYLAMINE, N-NITROSO-,                                   | 2 | 6 | 2 | 1 |   |   |    |   | 20605 |         |       | 9156   |        |
| DIMETHYLAMINE, N-NITROSO-,                                   | 2 | 6 | 2 | 1 |   |   |    |   | 20605 |         |       | 9156   |        |
| DIMETHYLAMINE, N-NITROSO-,                                   | 2 | 6 | 2 | 1 |   |   |    |   | 4837  |         |       | 375    |        |