UNION CARBIDE INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS • P. O. BOX 8361, SOUTH CHARLESTON, WEST VIRGINIA 25303

To (Name) Technology Managers
Division R/D Directors
Location R/D AD's
(Distribution List Attached)

Copy to
R. E. Graebert
V. H. Johnkoski

Date January 20, 1977

Originating Dept. Research and Development

Subject R/H Chemicals Manual

PLAINTIFF'S EXHIBIT UC-198

Gentlemen:

The SHARE organization is reviewing the need for resuming work on the Reactive and Hazardous Chemicals Manual. We need your help in developing plans.

(1) Attached is a list of chemicals currently in the R/D Manual with three exceptions which are circled.

(2) Do we need to complete those three?

(3) What new reactive and hazardous chemicals do you think we need to add to the list? (Note in attached the definition of a reactive and/or hazardous chemical).

(4) Are you willing to support the activity?

a) By supplying data and reviewing sheets on chemicals in your area.

b) Financially beyond your own support? (We have no budget for 1977).

Please respond to me by Feb. 1, 1977 with either a yes or no or with more specific information.

Call Ext. 4984 if you wish to chat.

Very truly yours,

John A. Fisher

John A. Fisher
Safety Research Laboratory
So. Charleston Technical Center
Bldg. 767

JAF/vl
Attachments

A23099

Union Carbide trial exhibit UC-198: John A. Fisher to Technology Managers, R/D Directors and R/D ADs on Resumi... Published by AsbestosClaims.Law
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REACTIVE CHEMICALS MANUAL SUPPLEMENTS - DATA SHEETS

FOREWORD

This is one of a series of four reference binders which are assigned only in sets, all binders in each set bearing one identification number. The series consists of the Reactive Chemicals Manual; Reactive Chemicals Manual Supplement - Data Sheets A - M; Reactive Chemicals Manual Supplement II - Data Sheets N - Z; and Bibliography of Reactive and Hazardous Chemicals References.

The Hazard Signal System (see colored label on the hub of this binder and the front and back sheets of each Data Sheet issued recently) is described briefly below. Further details are included in the "Manual for Identification of Materials by Hazard and the Hazard Signal System" which is available for reference from each Reactive Chemicals Project Committee Representative.

H (Health)	F (Flammability)	S (Stability)
1	Green Disk	1
2	1	2
3 } HAZARDOUS CHEMICAL unless designated as REACTIVE in "S" column.	2 } HAZARDOUS CHEMICAL unless designated as REACTIVE in "S" column.	3 } REACTIVE CHEMICAL
4	3	4
	4	

A REACTIVE CHEMICAL is defined as a material which will vigorously polymerize, decompose, condense, or otherwise react with itself or in the presence of a catalytic amount of some other material, or which will react violently with water or spontaneously with air.

A HAZARDOUS CHEMICAL is defined as one which does not qualify as a reactive chemical, but which is hazardous from the standpoint of health, flammability, or reactivity with other materials.

The REACTIVE CHEMICALS MANUAL SUPPLEMENTS - DATA SHEETS are designed to contain ultimately a data sheet on each reactive and hazardous chemical manufactured, processed or handled by the operating groups of the Chemicals and Olefins Companies.

A check list for the convenience of manual assignees follows. Data Sheets issued up to the revision date of the list are designated by check marks. Discontinuation in manufacturing, processing or handling of a reactive or hazardous chemical will not be considered cause for removing it from this list if a data sheet has been issued.

(Issued August, 1962)

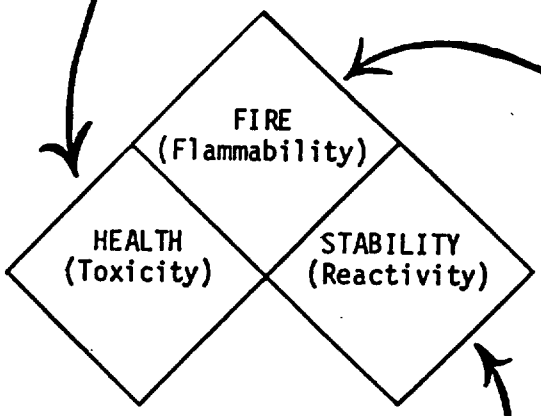
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1. DEFINITION OF UCC HAZARD SIGNAL SYSTEM

The hazard signals, which identify the degree of hazards, are defined as follows:

A	These materials are dangerous to life because of Asphyxiation from the lack of oxygen rather than because of toxic or narcotic effects.
1	No residual injury is to be expected from accidental exposure, even if no treatment is applied.
2	Minor residual injury may result from accidental exposure if no treatment is applied.
3	Minor residual injury may result in spite of prompt treatment. Breathing equipment required to avoid exposure.
4	Major residual injury may result in spite of prompt treatment. Breathing equipment required to avoid exposure.



0	No flash point; materials that are non-combustible.
1	Flash point above 140°F.
2	Flash point above 100°F through 140°F.
3	Flash point 73° through 100°F.
4	Flash point below 73°F.

1	Normally stable material.
2	Materials which are mildly reactive in the presence of contaminants or at elevated temperatures. (Heat of reaction will not raise temperature above the boiling point of the material.)
3	Materials which are vigorously reactive in the presence of contaminants or at elevated temperatures. (Heat of reaction will raise temperature above the boiling point of the material.)
4	Materials which may explode by mechanical shock or under conditions of abnormal temperature or pressure.
W	Materials which are reactive with water.

Revised 1/5/73

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UNION CARBIDE

REACTIVE
AND
HAZARDOUS
CHEMICALS
MANUAL

REACTIVE AND HAZARDOUS CHEMICALS MANUAL

INDEX TO DATA SHEETS PREPARED UNDER NEW FORMAT

Product	Status
Acetal (see Diethyl acetal)	
Acetaldehyde	Iss. 4-72
Acetaldehyde monoperacetate (see Peracetic acid)	
Acetaldol, butyraldol	Iss. 4-73
Acetic acid	Rev. 5-74
Acetic anhydride (see Anhydrides)	
Acetic esters (7) Amyl acetate Butyl acetate CELLOSOLVE acetate Ethyl acetate Isobutyl acetate Isopropyl acetate Propyl acetate	Iss. 7-73
Acetone	Rev. 1-73
Acetonitrile	Iss. 12-73
Acetophenone (see Ketones)	
Acetyl chloride, benzoyl chloride	Iss. 10-73
Acetylene	Rev. 12-74
Acetylenes (2) Methyl, Vinyl	Iss. 9-74
Acetylides (3) Silver, Copper, Mercury	Iss. 9-74
Acetyl peroxide (see Organic peroxides	
Acids, organic (see Organic acids)	
Acrolein	Iss. 1-72
Acrylic acid	Iss. 12-71
Acrylic esters (6) Butyl Ethyl Ethylhexyl Isobutyl Isodecyl Methyl	Rev. 5-74
Acrylonitrile	Rev. 12-74
Adipic acid	Iss. 1-74
Alcohols, C_2-C_{13} aliphatic (15) Amyl alcohols Butanol Ethanol 2-Ethylbutanol 2-Ethylhexanol Hexanol Isobutanol Isodecanol Isopropanol 2-Methylbutanol 3-Methylpentanol Pentanol Propanol Tridecanol	Iss. 5-73
Alcohols, linear (mix) C_{11}-C_{15}	Iss. 9-73
Aldehydes, C_3-C_5 (saturated)(6) Butyraldehyde Isobutyraldehyde 2-Methylbutyraldehyde 3-Methylbutyraldehyde Propionaldehyde Valeraldehyde	Rev. 3-74

NOTE: Iss. - Indicates date of issuance of completed data sheet.
IP - Indicates data sheet in process of preparation. Review copy available.
Sched. - Indicates data sheet scheduled for preparation.

Revised 1/30/75

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Product	Status
Aldehydes, C_6-C_8 (saturated)(3)	Iss. 9-74
2-Ethylbutyraldehyde	
2-Ethylhexaldehyde	
2-Methylpentaldehyde	
Aldehydes (unsaturated)(3)	Iss. 4-74
Croton oil	
Ethylpropyl acrolein	
Hexadienal	
Aldehydes, cycloaliphatic (see Cycloaliphatic aldehydes)	
Aldicarb dimer	Rev. 4-72
Aldicarb oxime	Iss. 8-71
Aldicarb pesticide (TEMIK) (see TEMIK, aldicarb pesticide)	
Alkanolamines (13)	Iss. 7-73
Aminoethylethanolamine	
Diethanolamine	
Diethylethanolamine	
Diisopropanolamine	
Dimethylethanolamine	
Ethyldiethanolamine	
Ethylethanolamine	
Methyldiethanolamine	
Methylethanolamine	
Monoethanolamine	
Monoisopropanolamine	
Triethanolamine	
Triisopropanolamine	
Alkylamines, C_1-C_6 (19)	Iss. 9-73
Amylamines	
n-Butylamine	
Diamylamine	
Dibutylamine	
Diethylamine	
Dihexylamine	
Diisopropylamine	
Dimethylamine	
Dipropylamine	
Ethylamine	
n-Hexylamine	
Isobutylamine	
Isopropylamine	
Methylamine	
n-Propylamine	
Tributylamine	
Triethylamine	
Trimethylamine	
Tripropylamine	

Product	Status
Alkyl benzenes (3)	Iss. 9-72
Ethylbenzene	
Toluene	
Xylene	
Alkyl chlorides (3)	Iss. 5-72
Butyl	
Ethyl	
Methyl	
Alkyleneamines (8)	Iss. 7-73
Diethylenetriamine	
Dipropylenetriamine	
Ethylenediamine	
Pentaethylenehexamine	
Polyamine H	
Propylenediamine	
Tetraethylenepentamine	
Triethylenetetramine	
Allene (see Acetylenes)	
Allyl alcohol	Iss. 3-71
Aluminum acetate	Iss. 7-74
Aluminum alkyls (3)	Rev. 1-73
Triethylaluminum	
Triisobutylaluminum	
Tri-n-decylaluminum	
Aluminum chloride	Iss. 4-73
Aluminum formoacetate (see Aluminum acetate)	
Aluminum isopropylate	Iss. 1-74
Amine 220	Iss. 2-74
Aminoethylethanolamine (see Alkanolamines)	
Aminoethylpiperazine (see Piperazines)	
Ammonia	Iss. 6-71
Ammonium nitrate (see Nitrates)	
Ammonium persulfate (see Persulfates)	
Ammonium thiocyanate (see Thiocyanates)	
Amyl acetates (see Acetic esters)	

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Product	Status
Amyl alcohols (see Alcohols, C_2-C_{13} aliphatic)	
Amylamines (see Alkylamines)	
Anhydrides (3) Acetic Butyric Propionic	Rev. 6-74
Aniline	Iss. 6-72
Antimony pentachloride	Iss. 10-73
Asbestos	Iss. 1-74
Azobisisobutyronitrile	Iss. 12-73
BAKELITE epoxy resin ERL 4206 (see Vinylcyclohexene dioxide)	
Barium and calcium hydroxides	Iss. 2-73
Benzene	Iss. 8-72
Benzoyl chloride (see Acetyl chloride)	
Benzoyl peroxide (see Organic peroxides)	
Bicyclononadiene and vinyl-norbornene	Iss. 10-74
Bisphenol A	Iss. 3-73
Borax	Iss. 9-73
Boric acid	Iss. 3-73
Boron trifluoride and boron trifluoride etherate	Iss. 4-73
1,3-Butadiene	Rev. 1-73
Butane (see Hydrocarbons, C_1-C_4 saturated)	
Butanol (see Alcohols, C_2-C_{13} aliphatic)	
Butyl acetate (see Acetic esters)	
Butyl acrylate (see Acrylic esters)	

Product	Status
n-Butylamine (see Alkylamines)	
t-Butylcatechol (see Inhibitors HQ, MMHQ, Ionol, TBC)	
Butyl chloride (see Alkyl chlorides)	
Butylenes (4) 1-Butene cis-2-Butene trans-2-Butene Isobutylene	Iss. 9-73
Butyl ether (see Ethers, dialkyl)	
t-Butyl hydroperoxide (see Organic peroxides)	
Butyl mercaptan (see Mercaptans)	
Butylphenol and Nonylphenol	Iss. 8-74
Butyraldehyde (see Aldehydes)	
Butyraldol (see Acetaldol)	
Butyric acid (see Organic acids)	
Butyric anhydride (see Anhydrides)	
Calcium carbide	Iss. 4-74
Calcium hydroxide (see Barium and calcium hydroxides)	
Calcium hypochloride	Iss. 2-74
ϵ-Caprolactone	Iss. 6-72
Carbonates (K and Na)	Iss. 11-73
Carbon disulfide	Iss. 12-72
Carbon monoxide	Iss. 11-71
Carbon tetrachloride	Iss. 1-73
CELLOSOLVE acetate (see Acetic esters)	
Chlorine	Iss. 4-72
Chloroform	Iss. 1-73
Chlorosulfonic acid	Iss. 4-73

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Product	Status
Cobalt acetate (see Cobalt salts)	
Cobalt carbonate (see Cobalt salts)	
Cobalt chloride (see Cobalt salts)	
Cobalt octacarbonyl (see Dicobalt-octacarbonyl)	
Cobalt and Nickel salts (6) Acetates Carbonates Chlorides Nickel chloride Nickel nitrate Nickel sulfate	Iss. 10-73
Copper acetylide (see Acetylides)	
Copper salts (4) Copper acetate Copper chloride Copper nitrate Copper sulfate	Iss. 1-74
Crotonaldehyde	Iss. 1-72
Croton oil (see Aldehydes, unsaturated)	
Crotyl alcohol	Iss. 7-71
Cumene	Iss. 4-71
Cumene hydroperoxide	Iss. 5-71
Cycloaliphatic aldehydes (2) 2-Methyl-1,2,3,6-tetrahydrobenzaldehyde 1,2,3,6-Tetrahydrobenzaldehyde	Iss. 7-73
Cyclohexanone	Iss. 7-73
Diacetone alcohol	Iss. 6-72
Diacetyl peroxide (see Organic peroxides)	
Diamylamines (see Alkylamines)	
Dibenzoyl peroxide (see Organic peroxides)	
Dibutylamines (see Alkylamines)	
Dichromates (K, Na)	Iss. 11-73
Dicobalt octacarbonyl	Iss. 1-72

Product	Status
Dicyclopentadiene	Iss. 7-73
Diethanolamine (see Alkanolamines)	
Diethyl acetal	Iss. 1-74
Diethylamine (see Alkylamines)	
2(N,N-Diethylamino)ethyl acrylate	Iss. 10-74
Diethylenetriamine (see Alkyleneamines)	
Diethylethanolamine (see Alkyleneamines)	
Di(2-ethylhexyl)phosphoric acid	Iss. 7-74
Diethyl maleate	Rev. 1-73
Diethyl sulfate	Iss. 5-74
Dihexylamine (see Alkylamines)	
Diisobutyl ketone (see Ketones)	
Diisopropanolamine (see Alkanolamines)	
Diisopropylamine (see Alkylamines)	
Diisopropylbenzene	Iss. 8-73
Diisopropyl sulfate (see Diethyl sulfate)	
Dimethylacetamide (DMA) and Di-methylformamide (DMF)	Iss. 2-73
Dimethylamine (see Alkylamines)	
Dimethylethanolamine (see Alkanolamines)	
Dimethylformamide (DMF) (see Dimethyl-acetamide and Dimethylformamide)	
2,6-Dimethylmorpholine (see Morpholines)	
Dinitrotoluene	Rev. 2-74
1,4-Dioxane	Iss. 10-72
Diisopropylamine (see Alkylamines)	
Dipropylenetriamine (see Alkyleneamines)	
Di-t-butyl peroxide (see Organic peroxides)	

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Product	Status
Dowtherm A	Iss. 3-73
Epichlorohydrin	Iss. 1-73
Esterdiol 204	Iss. 5-74
Ethane (see Hydrocarbons C_1-C_4, saturated)	
Ethanol (see Alcohols, C_6-C_{13} aliphatic)	
Ethers, dialkyl (4) Butyl Ethyl Isopropyl Methyl	Iss. 8-73
Ethyl acetate (see Acetic esters)	
Ethyl acrylate (see Acrylic esters)	
Ethylamine (see Alkylamines)	
Ethyl benzene (see Alkylbenzenes)	
2-Ethylbutanol (see Alcohols, C_2-C_{13} aliphatic)	
2-Ethylbutyraldehyde (see Aldehydes C_6-C_8, saturated)	
Ethyl butyl ketone (see Ketones)	
2-Ethylbutyric acid (see Organic acids)	
Ethyl chloride (see Alkyl chlorides)	
Ethylcrotonaldehyde	Iss. 3-72
Ethyldiethanolamine (see Alkanolamines)	
Ethylene, propylene	Iss. 1-73
Ethylene chlorohydrin	Iss. 5-73
Ethylenediamine (see Alkyleneamines)	
Ethylene dichloride and Propylene dichloride	Iss. 2-74
Ethyleneimine	Rev. 10-74
Ethylene oxide	Iss. 3-71

Product	Status
Ethylethanolamine (see Alkanolamines)	
Ethyl ether (see Ethers)	
2-Ethylhexaldehyde (see Aldehydes C_6-C_8, saturated)	
2-Ethylhexanoic acid (see Organic acids)	
2-Ethylhexanol (see Alcohols, C_2-C_{13} aliphatic)	
Ethylidenenorbornene	Iss. 8-72
Ethyl mercaptan (see Mercaptans)	
N-Ethylmorpholine (see Morpholines)	
Ethyl phenyl ketone (see Ketones)	
Ethylpropyl acrolein (see Aldehydes, unsaturated)	
Ethyl silicate	Iss. 9-71
Ferrous thiocyanate (see Thiocyanates)	
Formaldehyde	Rev. 3-74
Formic acid	Rev. 1-73
Gasoline (see Petroleum products)	
Glutaraldehyde	Iss. 4-74
Glutaric anhydride	Rev. 1-73
Glycidyl methacrylate	IP 12-74
Glyoxal	Iss. 6-72
Hexadienal (see Aldehydes, unsaturated)	
Hexamethylene tetramine	Iss. 6-74
Hexanoic acid (see Organic acids)	
Hexanol (see Alcohols, C_2-C_{13}, aliphatic)	
n-Hexylamine (see Alkylamines)	
Hydrazine	Iss. 10-73

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Product	Status
Hydrocarbons (saturated, C_1-C_4)(5) Butane Ethane Isobutane Methane Propane	Iss. 9-74
Hydrogen chloride and hydrochloric acid, anhydrous and 35% aqueous	Rev. 10-74
Hydrogen	Iss. 1-73
Hydrogen cyanide	Iss. 11-72
Hydrogen fluoride	Iss. 3-73
Hydrogen peroxide	Iss. 11-72
Hydrogen sulfide	Iss. 10-72
Hydroquinone and MMHQ (see Inhibitors HQ, MMHQ, Ionol, TBC)	
Hydroxyethylpiperazine (see Piperazines)	
Hydroxypropyl acrylate	Iss. 9-74
Inhibitors (4) t-Butylcatechol Hydroquinone Ionol MMHQ	Iss. 4-73
Inhibitor, Nalene (see Nalene)	
Inhibitor, Nitrophenylhydroxylamine (see Nitrosophenylhydroxylamine)	
Inhibitor, Phenothiazine (see Phenothiazine)	
Ionol (see Inhibitors HQ, Ionol, MMHQ, TBC)	
Isobutane (see Hydrocarbons, C_1-C_4, saturated)	
Isobutanol (see Alcohols, C_2-C_{13} aliphatic)	
Isobutyl acetate (see Acetic esters)	
Isobutyl acrylate (see Acrylic esters)	
Isobutylamine (see Alkylamines)	

Product	Status
Isobutylene (see Butylenes)	
Isobutyl heptyl ketone (see Ketones)	
Isobutyl nitrite	Iss. 8-71
Isobutyraldehyde (see Aldehydes C_2-C_5, saturated)	
Isobutyric acid (see Organic acids)	
Isodecanol (see Alcohols C_2-C_{13} aliphatic)	
Isodecyl acrylate (see Acrylic esters)	
Isooctanoic acid (see Organic acids)	
Isopentanoic acid (see Organic acids)	
Isophorone, mesityl oxide	Rev. 12-74
Isopropanol (see Alcohols, C_2-C_{13})	
Isopropyl acetate (see Acetic esters)	
Isopropylamine (see Alkylamines)	
Isopropyl chloroformate	Iss. 12-73
Isopropyl ether (see Ethers)	
Isopropyl mercaptan (see Mercaptans)	
Kerosene (see Petroleum products)	
Ketones (C_4-C_{12})(9) Diisobutyl Ethyl butyl Isobutyl heptyl Methyl n-amyl Methyl ethyl Methyl isoamyl Methyl isobutyl Methyl phenyl (acetophenone) Methyl n-propyl Ethyl phenyl (propiophenone)	Iss. 4-73 (Sched. 75)
Lead salts (4) Acetate Chloride Nitrate Sulfate	Iss. 3-74
3,4-Lutidine (see Pyridines)	

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Product	Status
Maleic anhydride	Iss. 4-74
Mercaptans (5) Butyl Ethyl Isopropyl Methyl Propyl	Iss. 1-74
Mercuric chloride	Iss. 9-73
Mercury	Iss. 1-74
Mercury acetylide (see Acetylides)	
Mesityl oxide (see Isophorone)	
Methacrylic acid	Iss. 10-74
Methallydiene diacetate	Sched. 75
Methane (see Hydrocarbons C_1-C_4, saturated)	
Methanol	Iss. 4-73
Methyl acetylene (see Acetylenes, Methyl, Vinyl)	
Methyl acrylate (see Acrylic esters)	
Methylamine (see Alkylamines)	
Methyl n-amyl ketone (see Ketones)	
2-Methylbutanol (see Alcohols, C_2-C_{13} aliphatic)	
3-Methylbutanol (see Alcohols, C_2-C_{13} aliphatic)	
Methylbutyraldehyde (see Aldehydes)	
Methyl chloride (see Alkyl chlorides)	
Methyldiethanolamine (see Alkanolamines)	
Methylethanolamine (see Alkanolamines)	
Methyl ether (see Ethers)	
Methyl ethyl ketone (see Ketones)	
Methyl formate	Iss. 1-75
2-Methyl-5-ethylpyridine (see Pyridines)	

Product	Status
Methyl isobutyl ketone (see Ketones)	
Methyl isocyanate	Rev. 3-74
Methyl mercaptan (see Mercaptans)	
Methylmethacrylate	Iss. 8-74
N-Methylmorpholine (see Morpholines)	
2-Methylpentaldehyde (see Aldehydes, C_6-C_{10}, saturated)	
Methyl pentanoic acid (see Organic acids)	
2-Methylpentanol (see Alcohols, C_2-C_{13} aliphatic)	
Methyl phenyl ketone, Acetophenone (see Ketones)	
Methylpiperazine (see Piperazines)	
Methyl n-propyl ketone (see Ketones)	
α-Methylstyrene	Iss. 4-71
2-Methyl-1,2,3,6-tetrahydrobenzaldehyde (see Cycloaliphatic aldehydes)	
Monoethanolamine (see Alkanolamines)	
Monomethylether of hydroquinone (see Inhibitors HQ, Ionol, MMHQ, TBC)	
Monoisopropanolamine (see Alkanolamines)	
Morpholines (5) 2,6-Dimethylmorpholine N-Ethylmorpholine N-Methylmorpholine Morpholine N-Phenylmorpholine	Iss. 5-73
Nalene	Iss. 4-73
Naphthalene	Iss. 4-74
1-Naphthol	Iss. 9-72
1-Naphthyl chloroformate	Rev. 1-73
NIAX catalyst A1, A99	Iss. 8-74
NIAX catalyst A4	Iss. 7-74

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Product	Status
Nickel carbonyl	Iss. 10-74
Nickel salts (see Cobalt and nickel salts)	
Nitrates (3) Ammonium Potassium Sodium	Rev. 12-74
Nitric acid	Iss. 3-73
Nitric oxide and nitrogen dioxide	Iss. 10-74
Nitrosophenylhydroxylamine	Iss. 4-73
Nonylphenol (see Butyl- and Nonlyphenol)	
Organic acids (10) Butyric 2-Ethylbutyric 2-Ethylhexanoic Hexanoic Isobutyric Isooctanoic Isopentanoic 2-Methylpentanoic Propanoic Valeric	Iss. 5-72
Organic peroxides (4) Diacetyl Dibenzoyl Di-t-butyl t-Butylhydroperoxide	Iss. 2-73
Oxygen	Iss. 3-73
Ozone	Iss. 11-72
Pentaerythritol	Sched. 75
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Pentanedione	Iss. 8-73
Pentanol (see Alcohols, C_2-C_{13} aliphatic)	
Peracetic acid (including acetaldehyde monoperacetate)	Iss. 6-72
Perchloroethylene and Trichloroethylene	Iss. 5-74

Product	Status
Perchloric acid	Iss. 1-73
Peroxide, hydrogen (see Hydrogen peroxide)	
Peroxides, organic (see Organic peroxides)	
Persulfates (3) Ammonium Potassium Sodium	Iss. 11-73
Petroleum ether (see Petroleum products)	
Petroleum products (4) Gasoline Kerosene Petroleum ether Stoddard solvent, Varsol	Iss. 1-74
Phenol	Iss. 4-71
Phenothiazine	Iss. 4-73
N-Phenylmorpholine (see Morpholines)	
N-Phenyl-1-naphthylamine	Iss. 10-72
Phosgene	Rev. 1-73
Phosphoric acid	Rev. 10-74
Phosphorous chlorides (3) Phosphorous oxychloride Phosphorous pentachloride Phosphorous trichloride	Iss. 9-73
Phthalic anhydride	Iss. 9-71
Picolines (see Pyridines)	
Piperazines (4) N-(2-Aminoethyl)piperazine N-(2-Hydroxyethyl)piperazine N-Methylpiperazine Piperazine	Iss. 8-73
Polyamine H (see Alkyleneamines)	
Polyphosphoric acid	Rev. 1-73
Potassium carbonate (see Carbonates)	
Potassium dichromate (see Dichromates)	
Potassium and Sodium hydroxides	Rev. 10-74

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Product	Status
Potassium permanganate	Iss. 9-71
Potassium nitrate (see Nitrates)	
Potassium persulfate (see Persulfates)	
Potassium-Sodium (Eutectic) (see Sodium metal)	
Potassium thiocyanate (see Thiocyanates)	
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Primary amyl alcohols (see Alcohols, C_2-C_{13} aliphatic)	
Propane (see Hydrocarbons, C_1-C_4, saturated)	
Propanoic acid (see Organic acids)	
Propionaldehyde (see Aldehydes)	
Propionic anhydride (see Anhydrides)	
Propiophenone (see Ketones)	
Propyl acetate (see Acetic esters)	
n-Propylamine (see Alkylamines)	
Propylene (see Ethylene)	
Propylenediamine (see Alkyleneamines)	
Propylene dichloride (see Ethylene and Propylene dichloride)	
Propylene oxide	Iss. 5-72
Pyridines (5) 3,4-Lutidine 2-Methyl-5-ethylpyridine α-Picoline γ-Picoline Pyridine	Iss. 12-72
Pyrogallol	Iss. 9-73
Raney nickel	Iss. 3-73
SEVIN Carbaryl Insecticide	Iss. 9-73
Silicon tetrachloride	Rev. 1-75

Product	Status
Silver acetylide (see Acetylides)	
Silver lactate, silver oxide	Iss. 11-73
Silver nitrate	Iss. 9-71
Sodium acetate and Sodium propionate	Iss. 1-74
Sodium borohydride	Iss. 11-71
Sodium carbonate (see Carbonates)	
Sodium cyanide	Iss. 9-73
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Sodium hydroxide, anhydrous and aqueous (see Potassium and Sodium hydroxides)	
Sodium metal	Iss. 10-74
Sodium metavanadate	Iss. 11-73
Sodium methylate	Iss. 11-73
Sodium nitrate (see Nitrates)	
Sodium persulfate (see Persulfates)	
Sodium-potassium (eutectic) (see Sodium metal)	
Sodium propionate (see Sodium acetate and propionate)	
Sodium silicate	Iss. 1-74
Sodium tetraborate (see Borax)	
Sodium thiocyanate (see Thiocyanates)	
Stoddard solvent (see Petroleum products)	
Styrene	Iss. 9-73
Styrene oxide	Rev. 10-74
Sulfuric acid	Iss. 3-73
TEMIK, aldicarb pesticide	Iss. 8-71

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Product	Status
TERGITOL Nonionic Surfactants 15-S-3 15-S-5 15-S-7 15-S-9 15-S-12	Rev. 12-74
Tetrachloroethane and Trichloroethane	IP 75
Tetrachloroethylene (see Perchloroethylene)	
Tetraethylenepentamine (see Alkyleneamines)	
Tetraethylorthosilicate (see Ethyl Silicate)	
1,2,3,6-Tetrahydrobenzaldehyde (see Cycloaliphatic aldehydes)	
Tetrahydronaphthalene (Tetralin)	Iss. 10-72
Tetralin (see Tetrahydronaphthalene)	
Tetralone-tetralol (mix)	Iss. 9-73
Thiocyanates (4) Ammonium Ferrous Potassium Sodium	Iss. 2-74
Thiodiglycol	Iss. 4-73
Toluene (see Alkylbenzenes)	
Tolylene diisocyanate	Rev. 1-73
Tolylenediamine	Iss. 8-73
Tributylamine (see Alkylamines)	
Trichloroethane (see Tetrachloroethane)	
Trichloroethylene (see Perchloroethylene)	
Tridecanol (see Alcohols, C_2-C_{13} aliphatic)	
Triethanolamine (see Alkanolamines)	
Triethylaluminum (see Aluminum alkyls)	
Triethylamine (see Alkylamines)	
Triethylenetetramine (see Alkyleneamines)	

Product	Status
Triisobutylaluminum (see Aluminum alkyls)	
Triisopropanolamine (see Alkanolamines)	
Trimethylamine (see Alkylamines)	
Tri-n-decylaluminum (see Aluminum alkyls)	
Tripropylamine (see Alkylamines)	
UCAR actomers (X-70, X-80)	Iss. 8-74
Valeraldehyde (see Aldehydes)	
Valeric acid (see Organic acids)	
Vanadium pentoxide	Iss. 9-73
Varson (see Petroleum products)	
VAZO Catalyst (see Azobisisobutyronitrile)	
Vinyl acetylene (see Acetylenes; Methyl, Vinyl)	
Vinyl acetate	Iss. 7-73
Vinyl chloride	Iss. 4-72
Vinyl cyclohexene	Iss. 9-72
Vinyl cyclohexene dioxide	Iss. 9-74
Vinyl cyclohexene monoxide	Iss. 6-73
Vinyl ethyl ether	Sched. 75
Vinyl norbornene (see Bicyclononadiene)	
Xylene (see Alkyl benzenes)	

Vinyl methyl ether

Acid phthalic - Jan 1974

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