



# SAFETY REGULATION no. 2



*Relating to the*

## LABELING FOR USE, HANDLING AND STORAGE

*of*

*Containers Holding Substances  
Harmful to the Safety and  
Health of Employees.*

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# 2

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*Effective August 1, 1958*

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**BUREAU OF ENGINEERING & SAFETY,**

N.J. DEPARTMENT OF LABOR & INDUSTRY

Trenton, N.J.

*Division 2  
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*This Safety Regulation No. 2 supersedes the following:*

*Rules and Regulations Relating to Labeling for Use, Handling, and Storage of Containers Holding Substances Harmful to the Safety and Health of Employees which was filed with the Secretary of State on July 1, 1954.*

*Regulation No. 2 relating to the Labeling for Use, Handling, and Storage of Containers Holding Substances Harmful to the Safety and Health of Employees which was certified on April 14, 1958.*

## C O N T E N T S

| Section |                                | Page |
|---------|--------------------------------|------|
|         | Foreword                       | 2    |
| 1       | Purpose and Scope              | 3    |
| 2       | Definitions                    | 3    |
| 3       | General Requirements           | 4    |
| 4       | General Labeling Requirements  | 5    |
| 5       | Exceptions                     | 6    |
| 6       | Container Handling and Storage | 6    |
|         | Appendix                       |      |

## FOREWORD

The development of new chemical products and the introduction of chemical processes into ever-widening fields have accentuated the need for furnishing appropriate information in those cases where there are hazards requiring special precautions. Precautionary information should, so far as practicable, reach every person using, handling, or storing chemicals. The most practical means to disseminate this information appears to be by warning labels affixed to containers of hazardous chemicals, bearing appropriate precautionary statements expressed as simply and briefly as circumstances permit. This regulation establishes reasonable labeling requirements to accomplish this purpose. It is based upon *Warning Labels, Manual L-1*, Fourth Revision-1956, of the Manufacturing Chemists Association.

This regulation is promulgated by the Commissioner of Labor and Industry of the State of New Jersey, under authority vested in him by law.

34:1-20. The Commissioner may make and publish rules and regulations not inconsistent with law as he shall deem necessary to enforce the provisions of this title.

Whenever any condition is found to exist in contravention of any provision of this title, the commissioner may by written order signed by him specifying the things to be done and the time for compliance require such conditions to be corrected.

The provisions of Title 34 which refer to the subject matter regulated are:

34:6-1. Every factory, workshop, mill or place where the manufacture of goods of any kind is carried on shall under the supervision and direction of the commissioner. . . . be protected, so far as practicable against the origin and spread of fire.

34:6-48. Every employer shall, without cost to his employees, provide reasonably effective devices, means and methods to prevent the contraction by them of any illness or disease incident to the work or process in which they are engaged.

Prior to its promulgation, this regulation was reviewed and approved by the New Jersey State Industrial Safety Committee.

## SECTION 1 - PURPOSE AND SCOPE

- 1.1 **PURPOSE.** The purpose of this regulation is to provide reasonable requirements for the labeling for use, handling and storage of containers holding substances harmful to the health and safety of employed persons.
- 1.2 **SCOPE.** This regulation provides for warning label requirements for containers holding substances that are generally accepted as constituting a significant health, poison, fire, or explosion hazard when such containers are used in any factory, workshop, mill or place where the manufacture of goods of any kind is carried on.

## SECTION 2 - DEFINITIONS

- 2.1 **Container** - an individual package, such as a bag, box, barrel, bottle, tube, can, carboy, cylinder, or drum, that is used to store or dispense a harmful substance. A container shall not include equipment or devices used either in the dynamic conveyance of such substances or in processing such substances.
- 2.2 **Corrosive** - any substance which in contact with living tissue will cause severe destruction of tissue by chemical action. As used in warning labeling, the term "corrosive" shall refer to action on living tissue and shall not be confused with action on inanimate surfaces.
- 2.3 **Dust** - solid particles generated by handling, crushing, grinding, rapid impact, detonation, and decrepitation of organic or inorganic materials. (A dust does not tend to flocculate except under electrostatic forces; it does not diffuse in air, but settles under the influence of gravity.)
- 2.4 **Flammable liquid** -
  - 2.4.1 **Class A (extremely flammable liquid)** - any liquid which gives off flammable vapors at or below a temperature of 20° F., as determined by the Tagliabue open-cup tester.
  - 2.4.2 **Class B (flammable liquid)** - any liquid which gives off flammable vapors above 20° F. and up to and including 80° F. as determined by the Tagliabue open-cup tester.
- 2.5 **Fume** - solid particles generated by condensation from the gaseous state, generally after volatilization from molten metal, etc. and often accompanied by a chemical reaction such as oxidization. (A fume flocculates.)
- 2.6 **Gas** - a normally formless fluid which occupies the space of enclosure and which can be changed to the liquid or solid state by the effect of increased pressure or decreased temperature or both. (A gas diffuses.)

- 2.7 *Hazard* - the risk of injury or illness that is encountered during reasonably anticipated handling and use of a substance. (Hazard is determined by such factors as toxicity, physical characteristics, and conditions of use and may not be proportional to toxicity alone.
- 2.8 *Irritant* - a substance which in contact with living tissue will induce either immediately or after prolonged or repeated contact a severe local tissue reaction not leading directly to destruction of tissue.
- 2.9 *Mist* - suspended liquid droplets generated by condensation from the gaseous to the liquid state or by breaking up a liquid into a dispersed state such as by foaming, splashing or atomizing.
- 2.10 *Mixture* - a physical commingling of two or more substances which may or may not bear a fixed proportion to one another and which have not reacted chemically with one another.
- 2.11 *Poison* - a substance or mixture of substances hazardous to man which falls within any of the following categories:
- (a) Produces death within 48 hours in half or more than half of a group of 10 or more laboratory white rats weighing between 200 and 300 grams at a single dose of 50 milligrams or less, per kilogram of body weight, when orally administered; or
  - (b) Produces death within 48 hours in half or more than half of a group of 10 or more laboratory white rats weighing between 200 and 300 grams when inhaled continuously for a period of one hour or less at an atmospheric concentration of 2 milligrams or less per liter of gas, vapor, mist, or dust, or
  - (c) Produces death within 48 hours in half or more than half of a group of 10 or more rabbits tested in a dosage of 200 milligrams or less per kilogram of body weight, when administered by continuous contact with the bare skin for 24 hours or less.
  - (d) If available data on human experience with any substance in the above named concentrations indicate results different from those obtained on animals, the human data shall take precedence.
- 2.12 *Vapor* - the gaseous form of a substance which is normally in the solid or liquid state. (A vapor diffuses).

### SECTION 3 - GENERAL REQUIREMENTS

- 3.1 All containers holding substances that are known to constitute a significant health, poison, fire or explosion hazard shall be labeled in accordance with these regulations.

- 3.2 No employer in any establishment within the scope of this Regulation shall accept any containers of substances known to constitute a significant hazard for use or handling by his employees unless such containers are labeled according to these regulations.
- 3.3 No employer in any establishment within the scope of this Regulation shall distribute, make available, furnish or supply for use by his employees any substance known to constitute a significant hazard unless the same is labeled according to these regulations.
- 3.4 No employer in any establishment within the scope of this Regulation shall distribute, make available, furnish or supply for personal use by employees any container known to have contained a hazardous substance unless the container has been thoroughly and properly cleaned.

#### **SECTION 4 - GENERAL LABELING REQUIREMENTS**

- 4.1 The following data shall appear on containers of substances known to constitute a significant hazard which shall include but not be limited to the substances used for illustrative purposes in the Appendix attached hereto.
  - 4.1.1 Name and place of business of manufacturer, distributor or seller. (On original containers.)
  - 4.1.2 Chemical, common, or recognized generic name (not trade name only) of components that constitute a significant hazard.
  - 4.1.3 Signal word-indicating degree of hazard such as "danger", "warning", or "caution."
  - 4.1.4 Affirmative statement of principal hazard or hazards such as "flammable", "vapor harmful", "causes burns", "absorbed through skin", or similar wording descriptive of the hazard.
  - 4.1.5 Precautionary measures covering actions to be followed or avoided.
  - 4.1.6 Instructions as to first aid treatment in case of contact or exposure, where advisable.
  - 4.1.7 The word "Poison" for poisonous substances as defined in Section 2.11 or when required by any statute of this State, regulations of any State agency, or Federal Statute.
  - 4.1.8 Instructions where necessary for handling and storage of containers, such as, "Keep Dry"; "Keep Cool"; "Prevent Freezing".
- 4.2 Warning statements or labels required by the provisions of this Regulation shall be located prominently on the container and shall be printed in legible type which shall be in contrast by typography, layout, or color with other printed matter on the container.

- 4.3 Use of language on labels, which is the practical equivalent of that shown in Appendix Part I shall constitute compliance with this Regulation, except that no words shall be regarded as the practical equivalent of the words "Poison" or "Poisonous."
- 4.4 When containers are of such small size as to make the requirements of Section 4.1 impractical, the following minimum data shall appear on such containers:
- 4.4.1 Name and place of business of manufacturer, distributor or seller.  
(On original containers).
  - 4.4.2 Chemicals, common, or recognized generic name (not trade name only) of components that constitute a significant hazard.
  - 4.4.3 Signal word - indicating degree of hazard such as "Danger", "Warning", or "Caution."
  - 4.4.4 Affirmative statement of principal hazard or hazards such as "flammable", "vapor harmful", "causes burns", "absorbed through skin", or similar wording descriptive of the hazard.
  - 4.4.5 Instructions as to first aid treatment in case of contact or exposure where advisable.
  - 4.4.6 Data as required by Sections 4.1.5 and 4.1.8 may be abbreviated or deleted depending on container's size.
  - 4.4.7 In the case of poisons, a practical first-aid treatment or antidote immediately following the word, "Poison". (Additional warnings may be indicated by the particular form or manner in which a product is sold or the circumstances surrounding its use.)

## **SECTION 5 - EXCEPTIONS**

- 5.1 Substances which are in process of manufacture within a plant may be declared by the Commissioner to be exempt in whole or in part, from the general labeling requirements of Section 4 upon acceptable proof that there exist in such plant other provisions for identification deemed adequate for the safety and health of the persons employed therein.

## **SECTION 6 - CONTAINER HANDLING AND STORAGE**

- 6.1 Appropriate instructions shall be given either on separate labels or in combination with the warning labels attached to the container whenever required for the safe handling and storage of containers. Care shall always be exercised in handling and storing containers of hazardous substances. The general instructions set out in Appendix Part III shall be used as a guide in labeling for special handling and storing certain classes of containers. Applicable phrases may be selected from these statements.

## **A P P E N D I X**

- PART I      PRINCIPLES FOR PREPARATION OF WARNING LABELS,  
TABLE I.
- PART II      INSTRUCTIONS FOR CONTAINER HANDLING AND STORAGE.
- PART III     ILLUSTRATIVE    WARNING    LABELS    FOR    INDUSTRIAL  
CHEMICALS.

# TABLE 1 Selection of Precautionary Statements

Products will be encountered that present hazards varying in kind or degree from those listed. Appropriate statements of hazards, precautionary measures and instructions in case of contact or exposure should be prepared on the basis of the properties of the product, following the pattern and general phraseology of the following table. Parenthetical words in the table express variations in kind or degree and are to be used where applicable.

| Class of Hazard                                                                                                                                                                                                                                                  | Statements of Hazard                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>I. Liquids Flashing at 150°F. or Below<br/>(Flash points are determined by the Tagliabue Open-Cup Method)</p> <p>A. Flash point 20°F. or below</p> <p>B. Flash point above 20°F. to 80°F. inclusive</p> <p>C. Flash point above 80°F. to 150°F. inclusive</p> | <p><b>IMPORTANT:</b> Select applicable statement(s) only. Selection(s) to be based on actual hazards of use and degree of hazard. In some instances where a mild caution is indicated, the statement of hazard may be omitted and adequate information provided by the statement of precautionary measures.</p> <p>Extremely Flammable</p> <p>Flammable</p> <p>(Combustible)</p> |
| II. Oxidizing Agents                                                                                                                                                                                                                                             | <p>Strong Oxidant</p> <p>Contact with Combustible (Other) Material May Cause Fire</p>                                                                                                                                                                                                                                                                                            |
| III. Materials Giving Vapors Rapidly Toxic or Extremely Irritating on Exposure for a Short Time or to Low Concentrations                                                                                                                                         | <p>Vapor (Extremely) Hazardous (Irritating)</p> <p>Hazardous Liquid and Vapor (Gas under Pressure)</p> <p>Vapor Poisonous if Inhaled</p> <p>Vapor May Be Fatal if Inhaled</p> <p>[See NOTE opposite page]</p>                                                                                                                                                                    |
| IV. Materials Giving Vapors Hazardous from Prolonged or Repeated Exposures or Exposure to High Concentrations                                                                                                                                                    | <p>Vapor Harmful</p> <p>Causes Irritation of Eyes, Nose, and Throat</p>                                                                                                                                                                                                                                                                                                          |
| V. Gases and Vapors Physiologically Inert                                                                                                                                                                                                                        | <p>Gas (Vapo-) Reduces Oxygen Available for Breathing</p> <p>Releases Heavy Gas (Vapor) which May Cause Suffocation</p>                                                                                                                                                                                                                                                          |
| VI. Materials in Dust Form Hazardous from Inhalation or Contact                                                                                                                                                                                                  | <p>Hazardous (Harmful) Dust</p> <p>Harmful if Inhaled</p> <p>Causes Irritation of Skin, Eyes, Nose, and Throat</p>                                                                                                                                                                                                                                                               |
| VII. Skin Irritants - Corrosive                                                                                                                                                                                                                                  | <p>Causes Severe Burns</p> <p>Causes Burns</p> <p>May Cause Burns</p>                                                                                                                                                                                                                                                                                                            |
| VIII. Materials Causing Skin Irritation after Prolonged or Repeated Contact                                                                                                                                                                                      | <p>Causes Skin Irritation</p> <p>May Cause Skin Irritation</p>                                                                                                                                                                                                                                                                                                                   |
| IX. Materials Toxic through Skin Absorption                                                                                                                                                                                                                      | <p>(Extremely) Hazardous (Harmful) Solid (Liquid)</p> <p>(Rapidly) Absorbed through Skin</p> <p>[See NOTE opposite page]</p>                                                                                                                                                                                                                                                     |
| X. Materials Toxic if Swallowed                                                                                                                                                                                                                                  | <p>Poisonous if Swallowed</p> <p>May be Fatal if Swallowed</p> <p>Harmful if Swallowed</p> <p>[See NOTE opposite page]</p>                                                                                                                                                                                                                                                       |

**NOTE: POISON, with skull and crossbones, should be included if the product meets any of the criteria for "poison" set forth in Section 2.1.11 of this Regulation. If POISON is used add first aid statement as required.**

#### Precautionary Measures

**IMPORTANT:** Select applicable statement(s) only. Selection(s) to be based on actual hazards-of use and degree of hazard. In some instances the omission of a precautionary statement may be justified where the measure to be followed is obvious from the statement of hazard.

Keep away from heat (sparks) and open flame.  
Keep container closed (and away from heat).  
Use with adequate ventilation.

Store separately (away) from and avoid contact with combustible (other) materials.  
Avoid contamination of clothing as it becomes dangerously flammable when dry.  
Keep container closed (and away from heat).  
Avoid contact with skin and eyes.

Do not breathe vapor.  
Do not get in eyes, on skin, on clothing  
Use only with adequate ventilation.  
Keep container closed (and away from heat).  
Have air line respirator or self-contained oxygen respirator available for emergency.

Use only with adequate ventilation.  
Avoid (prolonged or repeated) breathing (of) vapor.  
Avoid contact with skin, eyes, and clothing.  
Keep container closed (and away from heat).

Use with adequate ventilation.  
Keep container closed.  
Do not enter storage areas unless adequately ventilated.

Do not breathe dust.  
Avoid breathing dust.  
Wash thoroughly before eating or smoking.  
Avoid contact with skin, eyes, and clothing.

Do not get in eyes, on skin, on clothing.  
Avoid contact with skin, eyes, and clothing.  
Avoid exposure to (concentrated) vapor.

Avoid (prolonged or repeated) contact with skin.  
Wash thoroughly before eating or smoking.  
Avoid exposure to (concentrated) vapor.

Do not get in eyes, on skin, on clothing.  
Avoid contact with skin, eyes, and clothing.

Wash thoroughly before eating or smoking.  
Wash thoroughly after handling.  
Do not breathe dust (vapor).  
Avoid breathing dust (vapor).  
Do not take internally.

#### Instructions in case of Contact or Exposure

**IMPORTANT:** Select applicable statement(s) only. Selection(s) to be based on necessity for prompt action in order to avoid serious effects.

In case of contact, immediately flush skin or eyes with plenty of water for (at least) 15 minutes; for eyes, get medical attention. (Wash clothing thoroughly at once.)  
Sweep up spillage at once.  
Flush or absorb spillage with .....

In case of contact, immediately flush skin or eyes with plenty of water for (at least) 15 minutes; for eyes, get medical attention. Remove and wash clothing before re-use.  
[See NOTE above]

If spilled on clothing, remove and wash before re-use.  
In case of exposure to high concentrations, remove to fresh air.

If affected by exposure, remove to fresh air.  
If breathing has stopped, apply artificial respiration.

In case of contact, (immediately) flush skin or eyes with plenty of water for (at least) 15 minutes; for eyes, get medical attention. (Remove and wash clothing before re-use.)

In case of contact, immediately flush skin or eyes with plenty of water for (at least) 15 minutes; (for eyes), get medical attention. (Remove and wash clothing before re-use.)

In case of contact, flush with (plenty of) water; (for eyes, get medical attention.)

In case of contact, immediately (remove all contaminated clothing and) flush skin or eyes with plenty of water for (at least) 15 minutes; (for eyes), get medical attention. Wash clothing before re-use.  
[See NOTE above]

[See NOTE above]

## APPENDIX PART II

### RECOMMENDED INSTRUCTIONS FOR CONTAINERS HANDLING AND STORAGE

#### 1. Metal Drum Handling and Storage (For Liquids and Semi-liquids)

Keep plug up to prevent leakage.  
Keep drum out of sun and away from heat.  
Relieve internal pressure when necessary by slowly loosening plug.  
Retighten immediately.  
Never use pressure to empty except with approved type of equipment.  
Keep lights, fire, and sparks away from drum openings.  
Drum should not be washed out or used for other purposes.  
Replace plug after each withdrawal and return with empty drums.  
In case of spillage, flush or absorb with proper material.

#### 2. Glass Carboy Handling and Storage

Before moving carboy be sure closure is securely fastened.  
Loosen closure carefully.  
Keep out of sun and away from heat.  
Never use pressure to empty except with approved type of equipment.  
Completely drain carboy before returning.  
In case of spillage, flush or absorb with proper material.

#### 3. Wooden Barrel Handling and Storage (For Liquids and Semi-liquids)

Keep out of sun and away from heat.  
Store with bilge bung up  
Never use pressure to empty except with approved type of equipment.  
Drain completely.  
Keep barrel moist - shrinkage may cause leaks.  
In case of spillage, flush or absorb with proper material.

#### 4. Cylinder Handling and Storage

Keep away from heat.  
Do not store in sunlight.  
Never drop cylinders, and keep cylinders secured.  
Keep safety caps on cylinders when not in use.  
Be sure connections are tight.  
I. C. C. regulations prohibit refilling cylinder without permission of owner.  
Have airline respirator or self-contained oxygen respirator available for emergency.

#### 5. Aerosol Metal Can Containers

##### WARNING!

Contents under pressure. Do not puncture.  
Exposure to high temperatures may cause bursting.  
Keep at room temperature—away from direct sunlight, radiators, stoves, hot water and other heat.  
Never throw container into fire or incinerator.

*NOTE: Additional requisite cautions for statements as to hazards to persons and property, the safe discharge of contents, etc. will depend upon the particular product.*

## APPENDIX PART III

### ILLUSTRATIVE WARNING LABELS FOR INDUSTRIAL CHEMICALS

The warning labels in this part of the appendix have been prepared by the Manufacturing Chemists' Association, Inc. to demonstrate the practical application of Appendix Part I to a number of chemical products intended for industrial use. The user should familiarize himself with the Regulation before adapting any of the label statements contained herein. The chemicals were selected to illustrate labeling for the major types of hazards commonly encountered. Consequently, the listing covers only a relatively few of the hazardous chemicals for which warning labels are necessary. In many cases, these labels are applicable to other products, some of which are listed with appropriate cross references.

The labels are based on the properties of the named chemicals; the presence of other substances, including impurities, may alter these properties and necessitate additional or different precautionary information.

General information regarding the handling and storage of containers is not included on these labels.

First aid treatment is given for a few products only. Such information may be desirable on other products. Where "clothing" is mentioned in first aid instructions, it should be understood to mean all articles of clothing, including shoes, garters, and other accessories. Shoes are specifically named in some instructions because of special hazards arising from absorption of the chemical by leather.

## ACETALDEHYDE

**DANGER! EXTREMELY FLAMMABLE  
MAY FORM EXPLOSIVE PEROXIDES  
UNDER AIR PRESSURE**

Keep away from heat, sparks, and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

Cool to below 68°F. before opening.

Do not use air pressure to transfer.

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## ACETIC ACID, GLACIAL

**DANGER! CAUSES SEVERE BURNS**

Do not get liquid or vapor in eyes, on skin, on clothing.

Keep away from heat and open flame.

In case of contact, immediately flush skin or eyes with plenty of water  
for at least 15 minutes; for eyes, get medical attention.

\*Glacial Acetic Acid freezes at 62°F., forming hard lumps (which may  
break carboy when moved).

\*Store in area maintained above 62°F.

\*If frozen, thaw by **carefully moving** carboy to warm area.

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## ACETIC ACID, 80%

**DANGER! CAUSES SEVERE BURNS**

Do not get liquid or vapor in eyes, on skin, on clothing.

In case of contact, immediately flush skin or eyes with plenty of water  
for at least 15 minutes; for eyes, get medical attention.

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## ACETIC ACID, 56%-70%

**WARNING! MAY CAUSE BURNS**

Avoid contact with skin, eyes, and clothing.

In case of contact, immediately flush skin or eyes with plenty of water  
for at least 15 minutes; for eyes, get medical attention.

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## ACETIC ACID, 28%

**CAUTION! MAY CAUSE BURNS**

Avoid contact with skin, eyes, and clothing.

In case of contact, immediately flush skin or eyes with plenty of water  
for at least 15 minutes; for eyes, get medical attention.

## ACETIC ANHYDRIDE

**DANGER! CAUSES SEVERE BURNS  
VAPOR HARMFUL**

Do not get liquid or vapor in eyes, on skin, on clothing.

Do not breathe vapor.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

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## ACETONE

**DANGER! EXTREMELY FLAMMABLE**

Keep away from heat, sparks, and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged or repeated contact with skin.

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## ACETYL CHLORIDE

**DANGER! FLAMMABLE  
CAUSES SEVERE BURNS**

Keep away from heat and open flame.

Keep container closed.

Do not get in eyes, on skin, on clothing.

Avoid exposure to concentrated vapor.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Do not allow water to get into container.

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## ACRYLONITRILE

**DANGER! VAPOR HAZARDOUS  
FLAMMABLE**

Do not breathe vapor.

Do not get in eyes, on skin, on clothing.

Use only with adequate ventilation.

Keep away from heat and open flame.

Keep container closed.



**POISON**



**First Aid—Antidote**

(Use same first aid treatment as recommended for CYANIDES, INORGANIC)

## **ALUMINUM CHLORIDE, ANHYDROUS**

**WARNING! CAUSES BURNS**

**CONTACT WITH WATER OR MOIST AIR  
LIBERATES HYDROCHLORIC ACID GAS**

Avoid contact with eyes, skin or clothing.

Keep container tightly closed.

Loosen cover cautiously before opening.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

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## **ALLYL ALCOHOL**

**DANGER! EXTREMELY HAZARDOUS LIQUID AND VAPOR  
RAPIDLY ABSORBED THROUGH SKIN  
FLAMMABLE**

Do not get in eyes, on skin, on clothing.

Do not breathe vapor.

Do not take internally.

Keep away from heat and open flame.

Keep container closed.

In case of contact, immediately remove all contaminated clothing and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.



**POISON**



**First Aid—Antidote**

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## **ALLYL CHLORIDE**

**DANGER! VAPOR HARMFUL  
FLAMMABLE**

Do not get in eyes, on skin, on clothing.

Do not breathe vapor.

Keep away from heat and open flame.

Keep container closed.

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## **AMMONIA, AQUA—See AMMONIUM HYDROXIDE**

## **AMMONIA, ANHYDROUS**

**WARNING! HAZARDOUS LIQUID AND GAS UNDER  
PRESSURE  
LIQUID CAUSES BURNS  
GAS EXTREMELY IRRITATING**

Do not breathe gas.

Do not get in eyes, on skin, on clothing.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician at once in case of burns, especially to the eyes, nose, and throat, or if the patient is unconscious.

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## **AMMONIUM DICHROMATE**

**WARNING! FLAMMABLE  
HARMFUL DUST  
MAY CAUSE RASH OR EXTERNAL ULCERS**

Keep away from heat, sparks, and open flame.

Keep container closed.

Avoid contact with skin and eyes.

Avoid breathing dust or solution spray.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.

Use fresh clothing daily. Take hot shower after work using plenty of soap.

---

## **AMMONIUM HYDROXIDE**

**WARNING! LIQUID CAUSES BURNS  
VAPOR EXTREMELY IRRITATING**

Avoid breathing vapor.

Avoid contact with skin, eyes, and clothing.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

---

## **iso-AMYL ACETATE**

**CAUTION!**

Keep away from heat and open flame.

Avoid prolonged breathing of vapor.

Use with adequate ventilation.

Avoid prolonged or repeated contact with skin.

## **ANILINE**

**DANGER! HAZARDOUS LIQUID AND VAPOR  
RAPIDLY ABSORBED THROUGH SKIN**

Do not get in eyes, on skin, on clothing.

Avoid breathing vapor.

Use only with adequate ventilation.

In case of contact, immediately remove all contaminated clothing, including shoes, and flush skin or eyes with plenty of water for at least 15 minutes; get medical attention. Wash clothing before re-use.



**POISON**



**First Aid—Antidote**

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## **ortho-ANISIDINE**

**WARNING! HAZARDOUS LIQUID AND VAPOR  
ABSORBED THROUGH SKIN**

Avoid contact with skin, eyes, and clothing.

Avoid breathing vapor.

Use only with adequate ventilation.

In case of contact, flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Remove and wash clothing before re-use.

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## **para-ANISIDINE**

**WARNING! HAZARDOUS SOLID  
ABSORBED THROUGH SKIN**

Avoid contact with skin, eyes, and clothing.

Avoid breathing dust.

Use only with adequate ventilation.

In case of contact, flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Remove and wash clothing before re-use.

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## **ANTIMONY TRICHLORIDE**

**DANGER! CAUSES SEVERE BURNS  
VAPOR HAZARDOUS**

Do not get in eyes, on skin, on clothing.

Do not breathe vapor.

Keep container closed.

In case of contact, immediately remove all contaminated clothing and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.

## ARSENIC TRIOXIDE

**DANGER! MAY BE FATAL IF SWALLOWED**

Avoid breathing dust or spray mist.

Avoid contact with skin, eyes and clothing.

Wash thoroughly after handling.



**POISON**



First Aid—Antidote

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## BARIUM CHLORIDE

**WARNING! MAY BE FATAL IF SWALLOWED**

Avoid inhalation of dust.

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## BARIUM NITRATE

**WARNING! CONTACT WITH OTHER MATERIAL MAY  
CAUSE FIRE  
MAY BE FATAL IF SWALLOWED**

Keep container closed and away from heat.

Store separately from and avoid contact with other materials.

Avoid contact with skin and eyes.

Sweep up and carefully remove spilled material.

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## BENZENE (BENZOL)

**DANGER! EXTREMELY FLAMMABLE  
VAPOR HARMFUL**

Keep away from heat, sparks, and open flame.

Keep container closed.

Use only with adequate ventilation.

Avoid prolonged or repeated breathing of vapor.

Avoid prolonged or repeated contact with skin.



**POISON**



First Aid—Antidote

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## BENZIDINE

**WARNING! HAZARDOUS SOLID AND VAPOR  
RAPIDLY ABSORBED THROUGH SKIN  
REPEATED ABSORPTION MAY RESULT IN  
BLADDER TUMORS**

Avoid breathing dust or vapor.

Avoid contact with skin and eyes.

In case of contact, immediately wash skin with soap and plenty of water; flush eyes with plenty of water for at least 15 minutes and get medical attention.

Wear fresh clothing daily. Take hot shower after work using plenty of soap.

## **BENZOYL CHLORIDE**

**WARNING! CAUSES BURNS  
VAPOR IRRITATING**

Avoid contact with skin and eyes.

Avoid breathing vapor.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

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## **BENZYL CHLORIDE**

**WARNING! CAUSES BURNS**

Avoid contact with skin, eyes, and clothing.

Avoid breathing vapor.

In case of contact, immediately wash skin with soap and plenty of water; flush eyes with water for at least 15 minutes and get medical attention.

\*The following additional statements are suggested for unstabilized benzyl chloride:  
**CONTAMINATION MAY RESULT IN DANGEROUS PRESSURE.**

Keep dry and handle only in suitable equipment to prevent metallic contamination. Consult manufacturer.

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## **BROMINE**

**DANGER! CAUSES SEVERE BURNS  
VAPOR HAZARDOUS**

Do not get in eyes, on skin, on clothing.

Do not breathe vapor.

Wear goggles, neoprene rubber gloves, and rubber protective clothing when handling.

In case of contact, immediately remove all contaminated clothing, including shoes, and flush skin with plenty of water for at least 15 minutes. Flush eyes for at least 30 minutes. Get medical attention in all cases. Wash clothing before re-use.

If inhaled, remove patient to fresh air, keep him warm and quiet until physician arrives.

---

## **BUTADIENE**

**DANGER! EXTREMELY FLAMMABLE  
MAY FORM EXPLOSIVE PEROXIDES ON  
EXPOSURE TO AIR**

Keep away from heat, sparks, and open flame.

Keep container closed.

Use with adequate ventilation.

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**n-BUTYL ACETATE—Same label as iso-AMYL ACETATE**

**BUTYL ALCOHOL (normal or secondary)**  
*Same label as iso-AMYL ACETATE*

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**tert-BUTYL ALCOHOL—Same label as ETHYL ACETATE**

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**n-BUTYLAMINE**

**WARNING! FLAMMABLE**  
**MAY CAUSE SKIN IRRITATION**

Keep away from heat and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid exposure to vapor.

Avoid contact with skin and eyes.

In case of contact, flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

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**para-tert-BUTYL CATECHOL**

**WARNING! CAUSES SKIN IRRITATION**  
**CAUSES BURNS WHEN MOIST**

Do not get in eyes, on skin, on clothing.

In case of contact, immediately wash skin with soap and plenty of water; flush eyes with water for at least 15 minutes and get medical attention.

---

**n-BUTYL CHLORIDE**

**DANGER! EXTREMELY FLAMMABLE**

Keep away from heat, sparks, and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

---

**n-BUTYL ETHER**

**CAUTION! TENDS TO FORM EXPLOSIVE PEROXIDES**  
**ESPECIALLY WHEN ANHYDROUS**

Keep away from heat and open flame.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

Do not allow to evaporate to near dryness. Addition of water or appropriate reducing agents will lessen peroxide formation.

## **BUTYRALDEHYDE—Same label as ETHYL ACETATE**

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### **CARBON DIOXIDE, SOLID ("DRY ICE")**

**WARNING! EXTREMELY COLD (109°F. below zero)**  
**CAUSES SEVERE BURNS**  
**LIBERATES HEAVY GAS WHICH MAY CAUSE**  
**SUFFOCATION**

Do not get on skin or hands.

Do not taste.

Do not put in stoppered or closed containers.

Do not enter places where used or stored until adequately ventilated.

---

### **CARBON DISULFIDE**

**DANGER! EXTREMELY FLAMMABLE**  
**VAPOR HARMFUL**  
**HIGHLY VOLATILE**

Keep away from fire, sparks, or heated surfaces.

Store in cool place and keep container closed.

Use only with adequate ventilation.

Avoid breathing vapor.

Avoid contact with skin and eyes.



**POISON**



**First Aid—Antidote**

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### **CARBON TETRACHLORIDE**

**DANGER! HAZARDOUS VAPOR AND LIQUID**  
**MAY BE FATAL IF INHALED OR SWALLOWED**

Use only with adequate ventilation.

Do not breathe vapor.

Avoid prolonged or repeated contact with skin.

Do not take internally.



**POISON**



**First Aid—Antidote**

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### **CAUSTIC POTASH (POTASSIUM HYDROXIDE)**

*Same label as SODIUM HYDROXIDE*

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### **CAUSTIC SODA—See SODIUM HYDROXIDE**

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### **CHLORINATED DIPHENYL, MONO-, DI-, or TRI-**

*Same label as CHLORINATED NAPHTHALENE*

## **CHLORINATED DIPHENYL OXIDE, MONO-, DI-, or TRI-** *Same label as CHLORINATED NAPHTHALENE*

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### **CHLORINATED NAPHTHALENE (For TRI- and HIGHER CHLORINATED NAPHTHALENES)**

#### **CAUTION!**

Avoid repeated contact with skin.

Avoid repeated inhalation of fumes and dust.

---

### **CHLORAL**

#### **DANGER! EXTREMELY HAZARDOUS LIQUID AND VAPOR INHALATION MAY CAUSE DELAYED FATAL LUNG INJURY**

Do not get in eyes, on skin, on clothing.

Do not breathe vapor.

Use only with adequate ventilation.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

In case of inhalation or suspicion of inhalation, remove patient at once to fresh air and call physician. Keep patient absolutely quiet and start oxygen inhalation through suitable equipment.

---

### **CHLORINE**

#### **DANGER! HAZARDOUS LIQUID AND GAS UNDER PRESSURE**

Avoid breathing air containing this gas.

Avoid contact with skin or eyes.

Do not heat cylinders.

Have available emergency gas masks approved by U. S. Bureau of Mines for Chlorine service.

Handle and use only in accordance with practice recommended by the chlorine producer.

In case of exposure, remove patient to fresh air, keep him warm and quiet, and send for a physician.

---

### **CHLOROBENZENE (MONOCHLOROBENZENE)**

#### **WARNING! VAPOR HARMFUL**

Keep away from heat and open flame.

Use only with adequate ventilation.

Avoid contact with skin and clothing.

Avoid prolonged breathing of vapor.

## CHLOROFORM

### **WARNING! VAPOR HARMFUL**

Use only with adequate ventilation.

Avoid breathing vapor.

Avoid prolonged or repeated contact with skin.

Do not take internally.

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## **CHLOROPHENOL (MONOCHLOROPHENOL) (ortho, meta, or para)—Same label as CRESOL**

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## **CHLOROSULFONIC ACID**

### **DANGER! CAUSES SEVERE BURNS**

Do not get in eyes, on skin, on clothing.

Avoid breathing vapor.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Do not allow water to get into container.

---

## **CHLOROTOLUENE (MONOCHLOROTOLUENE)**

### **CAUTION! VAPOR HARMFUL**

Keep away from heat and open flame.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

---

## **CHROMIC ACID (CHROMIUM TRIOXIDE)**

### **DANGER! STRONG OXIDANT**

**CONTACT WITH OTHER MATERIAL MAY**

**CAUSE FIRE**

**MAY CAUSE BURNS OR EXTERNAL ULCERS**

Keep container closed.

Avoid contact with skin and eyes.

Avoid breathing dust or mist from solutions.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Wash clothing before re-use.

Use fresh clothing daily. Take hot shower after work using plenty of soap.

---

## **CREOSOTE OIL (COAL TAR CREOSOTE)**

### **CAUTION! MAY CAUSE SKIN IRRITATION**

Avoid prolonged or repeated contact with skin.

Avoid prolonged breathing of vapor.

Use with adequate ventilation.

## **CRESOL (CRESYLIC ACID)**

**DANGER! RAPIDLY ABSORBED THROUGH SKIN  
CAUSES SEVERE BURNS**

Do not get in eyes, on skin, on clothing.

Avoid breathing vapor.

Do not take internally.

In case of contact, immediately remove all contaminated clothing, including shoes, and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.

---

## **CYANIDES, INORGANIC (Excluding HYDROCYANIC ACID and CALCIUM CYANIDE)**

.....  
(NAME OF CYANIDE)

**DANGER! CONTACT WITH ACID LIBERATES POISONOUS GAS**

Avoid breathing gas or dust.

Avoid contact with skin.

Keep away from feed or food products.

Keep container closed and store in a dry place.



**POISON**



**First Aid—Antidote**

Carry patient to fresh air.

Have him lie down.

Remove contaminated clothing but keep patient warm.

Start treatment immediately.

**Call a physician.**

**If Cyanide Gas is Inhaled:** Break an amyl nitrite pearl in a cloth and hold lightly under nose for 15 seconds. Repeat 5 times at about 15-second intervals. Use artificial respiration if breathing has stopped.

**If Cyanide is Swallowed:** Break an amyl nitrite pearl in a cloth and hold lightly under nose for 15 seconds. If patient is conscious or when consciousness returns give emetic (1 tablespoonful of salt to each glass of warm water) and repeat until vomit fluid is clear. Repeat inhalation of amyl nitrite 5 times at about 15-second intervals. Use artificial respiration if breathing has stopped.

**Never give anything by mouth to an unconscious person.**

## **CYCLOHEXANE**

### **DANGER! EXTREMELY FLAMMABLE**

Keep away from heat, sparks, and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

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## **CYCLOHEXANOL**

### **CAUTION! VAPOR HARMFUL**

Use only with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

---

## **CYCLOHEXANONE**

### **CAUTION! VAPOR HARMFUL**

Keep away from heat and open flame.

Use only with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

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## **1,2-DICHLOROETHANE—See ETHYLENE DICHLORIDE**

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## **DICHLOROETHYLENE**

### **WARNING! FLAMMABLE**

Keep away from heat and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged or repeated breathing of vapor.

Avoid prolonged or repeated contact with skin.

Do not take internally.

---

## **DICHLOROETHYL ETHER**

### **DANGER! HAZARDOUS LIQUID AND VAPOR**

### **MAY BE FATAL IF SWALLOWED OR INHALED**

Do not breathe vapor.

Use only with adequate ventilation.

Avoid prolonged or repeated contact of liquid with skin.

Do not take internally.

## **2,4-DICHLOROPHENOL**

### **WARNING! CAUSES BURNS**

Avoid contact with eyes, skin, and clothing.

Avoid breathing vapor.

Do not take internally.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Remove and wash clothing before re-use.

---

## **DIETHYLAMINE**

### **DANGER! EXTREMELY FLAMMABLE MAY CAUSE SKIN IRRITATION**

Keep away from heat, sparks, and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid exposure to vapor.

Avoid contact with skin and eyes.

In case of contact, flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

---

## **DIETHYLENETRIAMINE**

### **DANGER! CAUSES SEVERE EYE AND SKIN BURNS**

Do not get in eyes, on skin, on clothing.

Avoid prolonged or repeated breathing of vapor.

In case of contact, immediately flush eyes or skin with plenty of water for at least fifteen minutes; for eyes, get prompt medical attention.

Remove contaminated clothing, including shoes. Wash clothing before re-use; discard contaminated shoes.

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## **DIMETHYLAMINE, ANHYDROUS**

### **DANGER! EXTREMELY FLAMMABLE HAZARDOUS LIQUID AND VAPOR UNDER PRESSURE LIQUID CAUSES BURNS VAPOR EXTREMELY IRRITATING**

Keep away from heat, sparks or open flame.

Use only with adequate ventilation.

Do not breathe vapor.

Do not get in eyes, on skin, on clothing.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Wash clothing before re-use.

Call physician at once in case of burns, especially to eyes, nose, and throat, or if patient is unconscious.

Have airline respirator or self-contained oxygen respirator available for emergency.

**DIMETHYLANILINE**—*Same label as ANILINE*

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**DI-iso-BUTYL KETONE**

*Same label as iso-AMYL ACETATE*

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**DIMETHYL SULFATE**

**DANGER! EXTREMELY HAZARDOUS LIQUID AND VAPOR  
CAUSES SEVERE BURNS**

Do not get in eyes, on skin, on clothing.

Do not breathe vapor.

Use only with adequate ventilation.

Wear goggles and rubber gloves when handling.

In case of spillage, cover immediately with dry soda ash.



**POISON**



**First Aid—Antidote**

Start treatment immediately and call a physician.

**Eyes:** Flush with water for at least 15 minutes.

**Skin:** Remove all contaminated clothing and flush skin with water for at least 15 minutes.

**Inhalation:** If breathing becomes difficult, start oxygen inhalation through suitable equipment.

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**DIOXANE (1,4-DIETHYLENE DIOXIDE)**

**WARNING! FLAMMABLE**

**VAPOR HARMFUL**

**TENDS TO FORM EXPLOSIVE PEROXIDES**

**ESPECIALLY WHEN ANHYDROUS**

Keep away from heat and open flame.

Keep container closed.

Use only with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

Do not allow to evaporate to near dryness. Addition of water or appropriate reducing agents will lessen peroxide formation.

---

**DIPROPYL KETONE**

*Same label as iso-AMYL ACETATE*

## ETHYL ACETATE

### WARNING! FLAMMABLE

Keep away from heat and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

---

## ETHYL BROMIDE

### WARNING! VAPOR HARMFUL

Use only with adequate ventilation.

Avoid prolonged breathing of vapor.

Keep container closed, out of sun, and away from heat.

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## ETHYL CHLORIDE

### DANGER! EXTREMELY FLAMMABLE

Keep away from heat, sparks, and open flame.

Use with adequate ventilation.

Keep container closed, out of sun, and away from heat.

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## ETHYLENE CHLOROHYDRIN (ANHYDROUS or 38%)

### DANGER! EXTREMELY HAZARDOUS LIQUID AND VAPOR MAY BE FATAL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN

Do not get in eyes, on skin, on clothing. (Ordinary rubber gloves will not prevent skin absorption.)

Do not breathe vapor.

Do not take internally.

Keep away from heat and open flame.

In case of contact, immediately remove all contaminated clothing and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.



**POISON**



**First Aid—Antidote**

**If swallowed:** Make patient vomit immediately by putting finger down throat or by giving warm mustard water or salt water freely.

**General:** Keep patient warm; if conscious, give black coffee. Call physician. Do not give adrenalin.

## **ETHYLENEDIAMINE**

### **DANGER! CAUSES SEVERE EYE AND SKIN BURNS**

Do not get in eyes, on skin, on clothing.

Avoid breathing vapor.

Keep away from heat and open flame.

In case of contact, immediately flush eyes or skin with plenty of water for at least fifteen minutes; for eyes, get prompt medical attention. Remove contaminated clothing, including shoes. Wash clothing before re-use; discard contaminated shoes.

\*This product freezes at approximately 50°F.

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## **ETHYLENE DIBROMIDE**

### **WARNING! VAPOR HARMFUL ABSORBED THROUGH SKIN**

Avoid breathing vapor.

Avoid contact with skin, eyes, and clothing.

In case of contact, immediately remove all contaminated clothing, including shoes, and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing and air shoes thoroughly before re-use.

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## **ETHYLENE DICHLORIDE**

### **WARNING! FLAMMABLE VAPOR HARMFUL**

Keep away from heat and open flame.

Keep container closed

Use only with adequate ventilation.

Avoid prolonged or repeated breathing of vapor.

Avoid prolonged or repeated contact with skin.

Do not take internally.

---

## **ETHYLENE OXIDE**

### **DANGER! EXTREMELY FLAMMABLE VAPOR HARMFUL MAY CAUSE BURNS**

Keep away from heat, sparks, and flames.

Keep container closed.

Avoid breathing vapor.

Avoid contact with skin, eyes, and clothing.

In case of contact, immediately remove all contaminated clothing, including shoes, and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

## ETHYLENE GLYCOL MONOMETHYL ETHER

*Same label as* **CYCLOHEXANONE**

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### ETHYL ETHER

**DANGER! EXTREMELY FLAMMABLE  
HIGHLY VOLATILE  
TENDS TO FORM EXPLOSIVE PEROXIDES  
ESPECIALLY WHEN ANHYDROUS**

Keep away from heat, sparks, and open flame.

Keep container tightly closed.

Do not allow to evaporate to near dryness. Addition of water or appropriate reducing agents will lessen peroxide formation.

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### ETHYL FORMATE—*Same label as* **CYCLOHEXANE**

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### FORMALDEHYDE SOLUTION

**WARNING! CAUSES IRRITATION OF SKIN, EYES, NOSE  
AND THROAT**

Avoid prolonged or repeated contact.

Avoid prolonged breathing of vapor.

Use with adequate ventilation.



**POISON**



**First Aid—Antidote**

**Call a physician immediately**

**If swallowed:** Give a tablespoonful of salt in a glass of warm water and repeat until vomit fluid is clear. Give milk, or white of egg beaten with water.

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### FORMIC ACID—*Same label as* **HYDROCHLORIC ACID**

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### HYDROCHLORIC ACID (MURIATIC ACID)

**WARNING! CAUSES BURNS**

Avoid contact with skin and eyes.

Avoid breathing vapor.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

## HYDROCYANIC ACID

**DANGER! POISON GAS  
FLAMMABLE**

Do not breathe gas.  
Avoid contact with skin.  
Do not drop container.  
Keep cool and away from open flame.



**POISON**



**First Aid—Antidote**

(Use same first aid treatment as recommended for CYANIDES, INORGANIC)

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## HYDROFLUORIC ACID, ANHYDROUS

**DANGER! EXTREMELY HAZARDOUS LIQUID AND VAPOR  
CAUSES SEVERE BURNS WHICH MAY NOT BE  
IMMEDIATELY PAINFUL OR VISIBLE**

Do not get in eyes, on skin, on clothing.  
Do not breathe vapor.

Store out of sun and away from direct heat.

UNLOAD ONLY IN ACCORDANCE WITH PRACTICE RECOMMENDED  
IN MANUFACTURING CHEMISTS' ASSOCIATION, INC. MANUAL  
H-10. Read also MCA Chemical Safety Data Sheet SD-25. Copies  
furnished on request.

### **First Aid In Case of Contact or Suspicion of Contact.**

Always have on hand a supply of Magnesia paste  
(magnesium oxide and glycerin).

**Skin:** Immediately flush with large quantities of cold water until all  
acid is removed (up to 3-4 hours or until medical attention is ob-  
tained), paying particular attention to skin under nails. In case med-  
ical attention is delayed, apply a mixture of glycerin with either  
magnesium oxide or milk of magnesia. **Get medical attention.**  
Remove and wash clothing before re-use.

**Eyes:** Immediately flush with cool water for 15-30 minutes; prompt  
medical attention is absolutely necessary.

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## HYDROFLUORIC ACID, AQUEOUS

**DANGER! HAZARDOUS LIQUID AND VAPOR  
CAUSES SEVERE BURNS WHICH MAY NOT BE  
IMMEDIATELY PAINFUL OR VISIBLE**

Balance of warning label same as for HYDROFLUORIC ACID, ANHYDROUS.

## **HYDROGEN CHLORIDE, ANHYDROUS**

**DANGER! HAZARDOUS LIQUID AND GAS UNDER PRESSURE  
CAUSES BURNS  
EXTREMELY IRRITATING**

Do not breathe gas.

Do not get in eyes or on skin.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Keep container out of sun and away from heat.

NOTE: Suck-back Into Cylinder May Cause Explosion. Under no circumstances should the cylinder delivery tube be inserted in a liquid or gas without a vacuum break or other protective apparatus in the line to prevent suck-back.

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## **HYDROGEN PEROXIDE 7.4%**

**CAUTION! STRONG OXIDANT**

Avoid contact with skin and eyes—wear rubber gloves and goggles. Avoid contamination from any source, including metals, dust, etc. Such contamination may cause rapid decomposition, generation of large quantities of oxygen gas, and high pressures.

\*Store in original closed container.

\*Be sure that the container vent is working satisfactorily.

\*Do not add any other product to this container.

\*When empty, rinse thoroughly with clean water.

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## **HYDROGEN PEROXIDE (stronger than 7.4% but not exceeding 52%)**

**CAUTION! STRONG OXIDANT**

Avoid contact with skin and eyes—wear rubber gloves and goggles.

Avoid contact with combustible materials. Drying of this concentrated product on clothing or combustible materials may cause fire.

In case of contact, immediately flush with plenty of water for at least 15 minutes; for eyes, get medical attention. Remove and wash clothing at once.

Avoid contamination from any source, including metals, dust, etc. Such contamination may cause rapid decomposition, generation of large quantities of oxygen gas, and high pressures.

\*Store in original closed container.

\*Be sure that the container vent is working satisfactorily.

\*Do not add any other product to this container.

\*When empty, rinse thoroughly with clean water.

## **HYDROGEN PEROXIDE, HIGH STRENGTH (over 52%)**

### **DANGER! POWERFUL OXIDANT CAUSES SEVERE BURNS**

Do not get in eyes, on skin, on clothing. Wear goggles, rubber gloves, protective outer clothing, and heavy rubber shoes.

Keep from contact with combustible materials. Spills on clothing or combustible materials will cause fire. Flush spillage with water.

Keep from contamination from any source, including metals, dust, and organic materials. Such contamination can cause rapid decomposition, generation of high pressures or formation of explosive mixtures.

In case of contact, immediately remove all contaminated clothing and flush skin and eyes with plenty of water for at least 15 minutes.

**GET MEDICAL ATTENTION.** Wash clothing promptly and thoroughly.

### **\*HANDLING INSTRUCTIONS**

**Do Not Open Unless You Have Been Properly Instructed.**

Store in original closed container.

Store container in a cool, clean place.

Keep drum in upright position.

Do not roll drum on side.

Wash leakage with water.

Put nothing else in this container.

**When Empty Drain And Flush Container Thoroughly With Clean Water . . . Replace Bungs Securely.**

---

## **HYDROGEN SULFIDE**

### **DANGER! POISON LIQUID AND GAS UNDER PRESSURE FLAMMABLE**

**BEFORE USING, READ M.C.A. CHEMICAL SAFETY DATA SHEET SD-36**

Do not breathe gas.

Keep away from heat and open flame—may form explosive mixture with air.

**NOTE:** This gas deadens the sense of smell.

Do not depend on odor to detect presence of gas.



**POISON**



**First Aid—Antidote**

Carry patient to fresh air.

If patient has stopped breathing, apply artificial respiration immediately.

Keep patient warm.

**Call physician.**

## LEAD ACETATE

### WARNING! HARMFUL DUST

Avoid breathing dust.

Wash thoroughly before eating or smoking.

Keep away from feed or food products.

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## LEAD MONOXIDE (LITHARGE)

*Same label as LEAD ACETATE*

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## MALEIC ANHYDRIDE

### WARNING! CAUSES BURNS

Avoid contact with skin, eyes, and clothing.

Avoid exposure to concentrated vapor.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

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## MERCURIC CHLORIDE (MERCURY BICHLORIDE)

### DANGER! MAY BE FATAL IF SWALLOWED

Do not breathe dust.

Avoid contact with eyes or prolonged contact with skin.

Keep away from feed or food products.

Wash thoroughly before eating or smoking.

Use fresh clothing daily. Take hot shower after work using plenty of soap.

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**POISON**



First Aid—Antidote

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## MESITYL OXIDE—*Same label as iso-AMYL ACETATE*

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## METHYL AMYL ACETATE

*Same label as iso-AMYL ACETATE*

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## METHYL AMYL ALCOHOL

*Same label as iso-AMYL ACETATE*

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## **METHYL n-AMYL KETONE**

*Same label as iso-AMYL ACETATE*

---

## **METHYL BROMIDE**

**DANGER! VAPOR EXTREMELY HAZARDOUS  
HIGHLY VOLATILE  
CAUSES BURNS**

Do not breathe vapor.

Do not get in eyes, on skin, on clothing.

Keep away from heat.

In case of contact, immediately remove all contaminated clothing, including shoes. Wash skin thoroughly with soap and water and flush eyes with water for at least 15 minutes; get medical attention.

Do not re-use shoes or clothing until free from all contamination.



**POISON**



**First Aid—Antidote**

Remove patient to fresh air.

Keep lying down and warm.

Use artificial respiration if breathing has stopped.

Get **IMMEDIATE** medical attention.

Use oxygen inhalator only at the direction of a physician.

On Can Label Add:

**IMPORTANT!** The contents of this can are under pressure. Do not use ordinary can opener. Special handling equipment is available.

Contact.....for information on equipment

(NAME OF MANUFACTURER)

and proper use.

---

## **METHYL CHLORIDE**

**WARNING! FLAMMABLE LIQUID AND GAS UNDER PRESSURE  
VAPOR HARMFUL**

Use only with adequate ventilation.

Avoid breathing vapor.

Avoid contact with skin.

Keep away from heat and open flame.

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## **METHYL iso-BUTYL KETONE**

*Same label as ETHYL ACETATE*

## **METHYL CYCLOHEXANOL**

*Same label as CYCLOHEXANOL*

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## **METHYL CYCLOHEXANONE**

*Same label as CYCLOHEXANONE*

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## **METHYL ETHYL KETONE**

*Same label as ETHYL ACETATE*

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## **METHYL METHACRYLATE MONOMER**

**WARNING! FLAMMABLE**

**MAY CAUSE SKIN IRRITATION**

Keep away from heat and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid contact with skin, eyes, and clothing.

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## **METHANOL**

**DANGER! FLAMMABLE**

**VAPOR HARMFUL**

**MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED**

**CANNOT BE MADE NONPOISONOUS**

Keep away from heat and open flame.

Keep container closed.

Avoid prolonged or repeated breathing of vapor.

Use only with adequate ventilation.



**POISON**



**First Aid—Antidote**

**If swallowed:** Give a tablespoonful of salt in a glass of warm water and repeat until vomit fluid is clear. Give two teaspoonfuls of baking soda in a glass of water. Have patient lie down and keep warm. Cover eyes to exclude light.

**Call a physician.**

### **METHANOL MIXTURES**

For products containing methanol in proportion sufficient to create hazard because of methanol content, use applicable statements as above, with addition of:

**CONTAINS OVER .....% OF METHANOL**

The word "FLAMMABLE" may be omitted from the label if the product has a flash point above 80°F.

## METHYL MORPHOLINE

**WARNING! HAZARDOUS LIQUID AND VAPOR  
MAY CAUSE SKIN IRRITATION  
FLAMMABLE**

Use with adequate ventilation.  
Avoid exposure to vapor.  
Avoid contact with skin and eyes.  
Keep away from heat and open flame.  
Keep container closed.

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## METHYL iso-PROPYL KETONE

*Same label as ETHYL ACETATE*

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## METHYLENE CHLORIDE

**CAUTION!**

Use with adequate ventilation.  
Avoid prolonged or repeated breathing of vapor.  
Avoid prolonged or repeated contact with skin.  
Do not take internally.

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## MIXED ACID (SULFURIC and NITRIC)

**DANGER! CAUSES SEVERE BURNS  
VAPOR EXTREMELY HAZARDOUS  
MAY CAUSE NITROUS GAS POISONING  
SPILLAGE MAY CAUSE FIRE OR LIBERATE  
DANGEROUS GAS**

Do not breathe vapor.  
Do not get in eyes, on skin, on clothing.  
In case of contact, immediately flush skin or eyes with plenty of water  
for at least 15 minutes; for eyes, get medical attention.

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## MONO-COMPOUNDS

*See alternative chemical name, e.g.*

**CHLOROPHENOL for MONOCHLOROPHENOL**

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**MURIATIC ACID—See HYDROCHLORIC ACID**

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## MORPHOLINE

**WARNING! MAY CAUSE EYE BURNS AND SKIN IRRITATION  
ABSORBED THROUGH SKIN**

Do not get in eyes.

Avoid contact with skin or clothing.

Keep away from heat and open flame.

In case of contact, immediately flush with plenty of water for at least fifteen minutes; for eyes, get medical attention. Remove contaminated clothing and wash before re-use.

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## **alpha-NAPHTHYLAMINE (containing beta-NAPHTHYLAMINE)**

*Same label as beta-NAPHTHYLAMINE*

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## **beta-NAPHTHYLAMINE**

**WARNING! HARMFUL DUST AND VAPOR  
REPEATED ABSORPTION MAY RESULT IN  
BLADDER TUMORS**

Use only with adequate ventilation.

Avoid breathing dust or vapor.

Avoid contact with skin.

Wear fresh clothing daily. Take hot shower after work using plenty of soap.

---

## **NITRIC ACID**

**DANGER! CAUSES SEVERE BURNS  
VAPOR EXTREMELY HAZARDOUS  
MAY CAUSE NITROUS GAS POISONING  
SPILLAGE MAY CAUSE FIRE OR LIBERATE  
DANGEROUS GAS**

Do not breathe vapor.

Do not get in eyes, on skin, on clothing.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; get medical attention.

---

## **NITROBENZENE—Same label as ANILINE**

## **NITROANILINE (ortho, meta, or para)**

**DANGER! HAZARDOUS SOLID AND VAPOR  
RAPIDLY ABSORBED THROUGH SKIN**

Do not get in eyes, on skin, on clothing.

Avoid breathing dust or vapor.

Use only with adequate ventilation.

In case of contact, immediately remove all contaminated clothing, including shoes, and flush skin or eyes with plenty of water for at least 15 minutes; get medical attention. Wash clothing before re-use.

---

## **NITROGEN DIOXIDE**

**DANGER! EXTREMELY HAZARDOUS LIQUID AND GAS  
INHALATION MAY CAUSE DELAYED FATAL LUNG  
INJURY**

READ MANUFACTURER'S MANUAL FOR DETAILED HANDLING  
INSTRUCTIONS

Do not breathe gas.

Avoid contact with skin, eyes, and clothing.

Do not allow to mix with combustible materials.

In case of inhalation or suspicion of inhalation, remove at once to fresh air and call a physician. Keep patient absolutely quiet and start oxygen inhalation through suitable equipment.

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## **NITROPHENOL (MONONITROPHENOL) (ortho or para)** *Same label as para-ANISIDINE*

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## **OLEUM (FUMING SULFURIC ACID)**

**DANGER! CAUSES SEVERE BURNS**

Do not get in eyes, on skin, on clothing.

Avoid breathing vapor.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Do not add water to contents while in a container because of violent reaction.

## **OXALIC ACID**

**WARNING! HARMFUL IF SWALLOWED  
CAUSES SKIN IRRITATION**

Avoid breathing dust.

Avoid contact with skin and eyes.

Do not take internally.

Keep away from feed or food products.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

---

## **PARAFORMALDEHYDE**

**WARNING! CAUSES IRRITATION OF SKIN, EYES, NOSE  
AND THROAT**

Avoid prolonged or repeated contact.

Avoid breathing dust or prolonged breathing of vapor.

Use with adequate ventilation.



**POISON**



**First Aid—Antidote**

**Call a physician immediately.**

**If swallowed:** Give a tablespoonful of salt in a glass of warm water and repeat until vomit fluid is clear. Give milk, or white of egg beaten with water.

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## **PARALDEHYDE**

**CAUTION! VAPOR HARMFUL**

Use only with adequate ventilation.

Avoid prolonged or repeated breathing of vapor.

Keep away from heat and open flame.

Do not take internally.

\*Solidifies at about 54°F. (12°C.) and may break container.

\*Store in a moderately warm place.

---

## **PENTACHLOROPHENOL**

**WARNING! HARMFUL DUST**

Avoid breathing dust.

Avoid contact with skin, eyes, and clothing.

Do not take internally.

In case of contact with dry material or its solution, immediately wash skin with soap and plenty of water; for eyes, flush with plenty of water for at least 15 minutes and get medical attention.

## PERCHLORIC ACID

### **DANGER! STRONG OXIDANT**

**CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE  
OR EXPLOSION, ESPECIALLY IF HEATED  
CAUSES SEVERE BURNS**

Keep container closed and away from heat.

Store separately from, and avoid contact with dehydrating agents and other materials.

Do not get in eyes, on skin, on clothing.

In case of spillage, flush with plenty of water and remove contaminated articles.

In case of contact, immediately remove all contaminated clothing and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.

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## PETROLEUM NAPHTHAS AND SOLVENTS, INDUSTRIAL

*(For solvents having a flash point 20°F. or BELOW, Tagliabue Open Cup Method as specified by Interstate Commerce Commission)*

.....  
(NAME OF PRODUCT)

### **DANGER! EXTREMELY FLAMMABLE**

Keep away from heat, sparks, and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

---

## PETROLEUM NAPHTHAS AND SOLVENTS, INDUSTRIAL

*(For solvents having a flash point ABOVE 20°F. but not above 80°F., Tagliabue Open Cup Method as specified by Interstate Commerce Commission)*

.....  
(NAME OF PRODUCT)

### **WARNING! FLAMMABLE**

Keep away from heat and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

## PETROLEUM NAPHTHAS AND SOLVENTS, INDUSTRIAL

(For solvents having a flash point ABOVE 80°F. but not above 150°F., Tagliabue Open Cup Method as specified by Interstate Commerce Commission)

.....  
(NAME OF PRODUCT)

### CAUTION!

Keep away from heat and open flame.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

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## PERCHLOROETHYLENE (TETRACHLOROETHYLENE)

Same label as TRICHLOROETHYLENE

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## PHENETIDINE (ortho or para)

Same label as ortho-ANISIDINE

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## PHENOL

**DANGER! RAPIDLY ABSORBED THROUGH SKIN  
CAUSES SEVERE BURNS**

Do not get in eyes, on skin, on clothing.

Avoid breathing vapor.

Do not take internally.

In case of contact, immediately remove all contaminated clothing, including shoes, and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.



**POISON**



First Aid—Antidote

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## PHENYLENEDIAMINE (meta or para)

**CAUTION! MAY CAUSE SKIN IRRITATION**

Avoid contact with skin and eyes.

Avoid breathing dust.

## PHOSPHORIC ACID

### CAUTION! CAUSES SKIN IRRITATION

Avoid contact with skin and eyes.

In case of contact, flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

---

## PHOSPHORIC ANHYDRIDE

### WARNING! CAUSES BURNS

Avoid contact with skin and eyes.

Wear rubber gloves and goggles.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Open carefully.

Do not add water to contents while in a container because of violent reaction.

---

## PHOSPHORUS (*For Wet Shipments*)

### DANGER! CAUSES SEVERE BURNS

Contents packed under water and will ignite if water is removed.

Do not get on skin or in eyes.

Wear heavy rubber gloves and goggles or face shield.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; keep skin area wet until medical attention is obtained.

Keep drum out of sun and away from heat.



**POISON**



First Aid—Antidote

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## PHOSPHORUS PENTACHLORIDE

### WARNING! HAZARDOUS DUST CAUSES BURNS

Do not breathe dust.

Do not get on skin or in eyes.

Wear rubber gloves and goggles.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Open carefully.

Do not add water to contents while in a container because of violent reaction.

## **PHOSPHORUS OXYCHLORIDE**

**DANGER! CAUSES SEVERE BURNS  
VAPOR EXTREMELY IRRITATING**

Do not breathe vapor.

Do not get in eyes, on skin, on clothing.

In case of contact, immediately remove all contaminated clothing and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.

In case of spillage, flood carefully with LARGE VOLUME of water and provide adequate ventilation.

Do not add water to contents while in a container because of violent reaction.

\*Do not open unless you have been properly instructed.

\*Do not use this container for any other product.

---

## **PHOSPHORUS TRICHLORIDE**

**DANGER! CAUSES SEVERE BURNS  
VAPOR EXTREMELY IRRITATING  
CONTACT WITH WATER MAY CAUSE FLASH FIRE**

Do not get in eyes, on skin, on clothing.

Do not breathe vapor.

In case of contact, immediately remove all contaminated clothing and flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.

In case of spillage, flood carefully with LARGE VOLUME of water and provide adequate ventilation.

Do not add water to contents while in a container because of violent reaction and possible flash fire.

\*Do not open unless you have been properly instructed.

\*Do not clean or re-use this container.

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## **PHTHALIC ANHYDRIDE (SOLID)**

**CAUTION! MAY CAUSE SKIN IRRITATION**

Avoid prolonged or repeated contact with skin.

Avoid breathing dust.

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## **POTASSIUM HYDROXIDE**

*Same label as* **SODIUM HYDROXIDE**

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**iso-PROPYL ACETATE—Same label as ETHYL ACETATE**

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**iso-PROPYL ETHER**—Same label as **ETHYL ETHER**

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**PROPYLENE**—Same label as **ETHYL CHLORIDE**

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**PROPYLENE CHLOROHYDRIN**

Same label as **ETHYLENE CHLOROHYDRIN**

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## **PYRIDINE**

**WARNING! FLAMMABLE  
VAPOR HARMFUL**

Keep away from heat and open flame.

Keep container closed.

Use only with adequate ventilation.

Avoid prolonged or repeated breathing of vapor.

Avoid prolonged or repeated contact with skin.

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## **SILVER NITRATE**

**WARNING! MAY CAUSE BURNS**

Avoid contact with skin and eyes.

In case of contact with eyes flush with water for at least 15 minutes and get medical attention.



**POISON**



First Aid—Antidote

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## **SODIUM (METAL)**

**DANGER! REACTS VIOLENTLY WITH WATER LIBERATING  
AND IGNITING HYDROGEN  
MAY CAUSE BURNS**

Keep from any possible contact with water.

Keep container tightly closed.

Do not get in eyes or on skin.

Wear goggles and DRY gloves when handling.

In case of fire, smother with DRY SODA ASH—NEVER USE WATER OR  
CHEMICAL FIRE EXTINGUISHERS.

Dispose of SODIUM by burning carefully in an open fire.

### **First Aid**

**SKIN:** Remove SODIUM and flush affected area with water.

**EYES:** IMMEDIATELY flush eyes with plenty of water for 15 minutes.  
Get medical attention.

## **SODIUM CHLORATE**

### **WARNING! STRONG OXIDANT**

#### **CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE**

Clothing and vegetation contaminated with chlorate or its solutions are **DANGEROUSLY FLAMMABLE**. Remove clothing and wash thoroughly with water. Keep persons and animals off treated areas.

Spillage may cause fires. Do not get on floor. Sweep up and remove immediately.

When not in use keep tightly closed in original metal container.

Keep away from fire.

Store separately from flammable material.

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## **SODIUM CYANIDE—See CYANIDES, INORGANIC**

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## **SODIUM DICHROMATE**

### **WARNING! HARMFUL DUST**

#### **MAY CAUSE RASH OR EXTERNAL ULCERS**

Keep container closed.

Avoid contact with skin and eyes.

Avoid breathing dust or solution spray.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention. Wash clothing before re-use.

Use fresh clothing daily. Take hot shower after work using plenty of soap.

---

## **SODIUM FLUORIDE**

### **WARNING! MAY BE FATAL IF SWALLOWED**

Avoid breathing dust.

Wash thoroughly after handling.

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## **SODIUM FLUOSILICATE**

*Same label as SODIUM FLUORIDE*

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## **SODIUM HYDROSULFITE**

### **CAUTION! MAY IGNITE IF ALLOWED TO BECOME DAMP**

Keep container tightly closed.

Use only dry, clean utensils in handling.

Store in a cool, dry place.

## **SODIUM HYDROXIDE (CAUSTIC SODA)**

**WARNING! CAUSES SEVERE BURNS TO SKIN AND EYES**

Avoid contact with skin, eyes, and clothing.

Do not take internally.

When handling, wear goggles or face shield. While making solutions, add Sodium Hydroxide slowly to surface of solution to avoid violent spattering.

In case of contact, immediately flush skin with plenty of water; for eyes, flush with plenty of water for at least 15 minutes and get medical attention.

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## **SODIUM ORTHOSILICATE**

*Same label as SODIUM HYDROXIDE*

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## **SODIUM SESQUISILICATE, ANHYDROUS**

*Same label as SODIUM HYDROXIDE*

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## **SODIUM SULFHYDRATE**

*Same label as SODIUM SULFIDE*

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## **SODIUM SULFIDE (Containing 35% or more combined water)**

**DANGER! CONTACT WITH ACID LIBERATES POISONOUS GAS  
BURNS SKIN AND EYES**

Avoid breathing dust.

Avoid contact with skin and eyes.

Keep container closed and away from acids and heat.

Sweep up spillage. Do not flush to sewer which may contain acid.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

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## **STYRENE MONOMER**

*Same label as CYCLOHEXANONE*

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## **SULFUR CHLORIDE**

**WARNING! CAUSES BURNS  
VAPOR IRRITATING**

Avoid contact with eyes, skin, and clothing.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Do not allow water to get into container.

## **SULFUR DICHLORIDE**

*Same label as SULFUR CHLORIDE*

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## **SULFURIC ACID**

**DANGER! CAUSES SEVERE BURNS**

Do not get in eyes, on skin, on clothing.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes, get medical attention.

Do not add water to contents while in a container because of violent reaction.

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## **SULFURYL CHLORIDE**

*Same label as SULFUR CHLORIDE*

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## **TAR ACIDS—Same label as CRESOL**

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## **TETRACHLOROETHANE**

**DANGER! VAPOR EXTREMELY HAZARDOUS**

Use only in completely enclosed system.

Do not breathe vapor.

Do not get in eyes, on skin on clothing.

Do not take internally.



**POISON**



First Aid—Antidote

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## **TETRACHLOROETHYLENE (PERCHLOROETHYLENE)**

*Same label as TRICHLOROETHYLENE*

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## **TETRACHLOROPHENOL**

*Same label as PENTACHLOROPHENOL*

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## **TETRAETHYLENEPENTAMINE**

*Same label as DIETHYLENETRIAMINE*

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## **THIONYL CHLORIDE**

*Same label as SULFUR CHLORIDE*

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## **TOLUENE (TOLUOL)**

**WARNING! FLAMMABLE  
VAPOR HARMFUL**

Keep away from heat and open flame.  
Keep container closed.  
Use only with adequate ventilation.  
Avoid prolonged breathing of vapor.  
Avoid prolonged or repeated contact with skin.

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## **TOLUIDINE (ortho or meta)**

**DANGER! HAZARDOUS LIQUID AND VAPOR  
RAPIDLY ABSORBED THROUGH SKIN**

Do not get in eyes, on skin, on clothing.  
Avoid breathing vapor.  
Use only with adequate ventilation.  
In case of contact, immediately remove all contaminated clothing, including shoes, and flush skin or eyes with plenty of water for at least 15 minutes; get medical attention. Wash clothing before re-use.

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**para-TOLUIDINE—Same label as NITROANILINE**

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## **TRICHLOROETHYLENE**

**WARNING! VAPOR HARMFUL**

Use only with adequate ventilation.  
Avoid prolonged or repeated breathing of vapor.  
Avoid prolonged or repeated contact with skin.  
Do not take internally.

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## **TRICHLOROPHENOL (all isomers)**

**CAUTION! MAY CAUSE SKIN IRRITATION**

Avoid prolonged or repeated contact with skin.

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## **TRIETHYLENETETRAMINE**

*Same label as DIETHYLENETRIAMINE*

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## **TRIMETHYLAMINE, ANHYDROUS**

*Same label as DIMETHYLAMINE, ANHYDROUS*

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## **TRIMETHYLCYCLOHEXANOL**

*Same label as CYCLOHEXANOL*

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## **VINYL CHLORIDE**

**DANGER! EXTREMELY FLAMMABLE LIQUID AND GAS  
UNDER PRESSURE**

Keep away from heat, sparks, and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

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## **XYLENE (XYLOL)**

**WARNING! FLAMMABLE**

Keep away from heat and open flame.

Keep container closed.

Use with adequate ventilation.

Avoid prolonged breathing of vapor.

Avoid prolonged or repeated contact with skin.

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**XYLIDINES—*Same label as TOLUIDINE (ortho or meta)***

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## **ZINC CHLORIDE (Granular, Fused, or Solution)**

**WARNING! MAY CAUSE SEVERE SKIN IRRITATION**

Avoid contact with skin or eyes.

In case of contact, flush skin or eyes with plenty of water for at least  
15 minutes; for eyes, get medical attention.

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