Material Safety Data Sheet



Chloroform

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



Section 1 - Product Description

Product Name: Chloroform

Product Code(s): 85-3980, 85-3982, 84-1117, 21-7320, 85-3998, 85-4000, 85-4002

Size: 150 ml, 500 ml, 950 ml, 4 l **Chemical Name:** Trichloromethane

CAS Number: 67-66-3 Formula: CHCl3

Synonyms: Methyl Trichloride

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Skin: May cause irritation to skin.

Emergency Overview: DANGER - Harmful by inhalation and if swallowed. May cause cancer.

Potential Health Effects:

Eyes: Causes severe burns and eye damage upon direct

contact. Vapor is irritating.

Ingestion: May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Chloroform (CAS# 67-66-3) 99%; Ethyl Alcohol (CAS# 64-17-5) 1%

TLV units: Chloroform: ACGIH-TLV 10 ppm (TWA)

Ethyl Alcohol: ACGIH-TLV 1000 ppm (TWA) **PEL units:** Chloroform: OSHA-PEL 50 ppm (TWA)

Ethyl Alcohol: OSHA-PEL 1000 ppm (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

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Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating: Health: 2 Fire: 0 Reactivity: 0

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Avoid direct sunlight and heat. Avoid creating and inhaling spray or mist. Suitable for any general chemical storage.

Keep locked up and out of the reach of children.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes **Mechanical(General):** Yes

Special: No **Other:** No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 119.39 **Melting Point:** -63.5 °C

Solubility in Water: Slightly Soluble **Appearance and Odor:** Clear, colorless liquid, Sweet odor.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

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Incompatibility (Materials to Avoid): Oxidizers, Ketones, Halogens, Metals, Bases, Alkalis, Heavy Metals, Water, Disilane,

Hazardous Decomposition Products: COx, HCl, Halogenated compounds (Cl, F, Br), CaCl2 - phosgene gas,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: (Chloroform) orl-hmn LDLo 2514 mg/kg; orl-rat LD50 695 mg/kg

(Ethyl Alcohol) orl-rat LD50 7060 mg/kg; ihl-rat LC50 20000 ppm/10H

Effects of Overexposure: Acute: See Section 2

Chronic: Mutation data cited. Reproductive data cited. Tumorigenic data cited. Tests on laboratory animals indicate material may produce adverse mutagenic and reproductive effects. Certain components or species of this product are considered potential

carcinogens.

Conditions Aggravated by Overexposure: Liver disorders, Impaired Kidney Function, Cardiovascular system, Pregnancy,

Alcoholism,

Target Organs: Kidneys, Liver, Respiratory system, Cardiovascular system,

Primary Route(s) of Entry: Inhalation, Ingestion, and Skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: U044; D022

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1888, Chloroform, 6.1, III ***4 L bottle is a reportable quantity.***

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute Chronic

Name List: Chloroform - Yes Ethyl Alcohol - No **Chemical Category:** Chloroform - No Ethyl Alcohol - No

CERCLA Section 103 RQ(lb.): Chloroform - 10

Ethyl Alcohol - No

RCRA Section 261.33: Chloroform - U044

Ethyl Alcohol - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

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Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT

U.S. Department of Transportation International Agency of Research on Cancer **IARC**

Not Available N/A

National Toxicology Program NTP

Occupational Safety and Health Administration **OSHA**

Permissible Exposure Limit PEL

ppm Parts per million

RCRA Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act SARA

Threshold Limit Value TLV TSCA Toxic Substances Control Act

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