

Chem Service Inc.
Material Safety Data Sheet

Date: Thursday, May 06, 2004

Last Revised Date: 3/1/00

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Catalog Number: F17

Description: Bis(chloromethyl)ether

Other Name(s): sym-Chloromethyl ether

Supplied by CHEM SERVICE, Inc. PO BOX 599, WEST CHESTER, PA 19381 (610)-692-3026
EMERGENCY PHONE: 1-610-692-3026

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS No.: 542-88-1

Description: Bis(chloromethyl)ether

EINECS No.: 208-832-8

Hazard Symbols: T+

SECTION 3 - HAZARDS IDENTIFICATION

Contact lenses should not be worn in the laboratory. All chemicals should be considered hazardous - Avoid direct physical contact!

KNOWN CARCINOGEN-cancer producing agent. Can cause delayed lung injury. Can cause eye irritation. Can cause skin irritation. Dust and/or vapors can cause irritation to respiratory tract. Can be irritating to mucous membranes. Chronic exposure may cause bronchitis. May be harmful if absorbed through the skin. May be harmful if inhaled. May be harmful if swallowed. May be fatal if absorbed through the skin! May be fatal if inhaled! May be fatal if swallowed! Repeated exposure to vapors and/or dust can cause eye injury. Vapors can cause severe eye inflammation and swelling of adjoining tissues. Can cause an allergic respiratory reaction. All chemicals should be considered hazardous. Avoid direct physical contact. Prolonged exposure may cause nausea/headache/dizziness and/or eye damage. Based on the toxicity of compounds of similar structure this material is probably highly hazardous. Extremely destructive of mucous membranes and/or upper respiratory tract. Can cause edema-swelling of tissues. Can cause delayed adverse health effects. May be rapidly absorbed thru the skin with potential adverse health effects. This chemical is considered to be a CARCINOGEN by the state of California.

SECTION 4 - FIRST AID MEASURES

An antidote is a substance intended to counteract the effect of a poison. It should be administered only by a physician or trained emergency personnel. Medical advice can be obtained from a POISON CONTROL CENTER.

In case of contact: Flush eyes continuously with water for 15-20 minutes. Flush skin with water for 15-20 minutes. If no burns have occurred-use soap and water to cleanse skin. If inhaled remove patient to fresh air. Administer oxygen if patient is having difficulty breathing. If patient has stopped breathing administer artificial respirations. If patient is in cardiac arrest administer CPR. Continue life supporting measures until medical assistance has arrived. Remove and wash contaminated clothing. If patient is exhibiting signs of shock - Keep warm and quiet. Contact Poison Control Center immediately if necessary. Do not administer liquids or induce vomiting to an unconscious or convulsing person. If patient is vomiting-watch closely to make sure airway does

not become obstructed by vomit. Get medical attention if necessary.

SECTION 5 - FIRE AND EXPLOSION DATA

Flash Point: 38< C This is a flammable chemical.

Extinguishing Media: Carbon dioxide or dry chemical powder. DO NOT USE WATER!

Upper Explosion Limit: Not Available

Lower Explosion Limit: Not Available

Autoignition Temperature: Not Available

NFPA Hazard Rating:

Health: 4

Flammability: 3

Reactivity: 1

Special:

0 - Least, 1 - Slight, 2 - Moderate, 3 - High, 4 - Severe

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spills or leaks: Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area.

Absorb on vermiculite or similar material. Sweep up and place in an appropriate container.

Hold for disposal.

Wash contaminated surfaces to remove any residues. Remove contaminated clothing and wash before reuse.

SECTION 7 - HANDLING AND STORAGE

Handling:

This chemical should be handled only in a hood. Eye shields should be worn.

Use appropriate OSHA/MSHA approved safety equipment.

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation

Wash thoroughly after handling.

Storage:

Store in a cool dry place. Store only with compatible chemicals. Store only with compatible chemicals.

Keep tightly closed.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL (TWA): see CFR29 1910.1008

ACGIH TLV (TWA): 0.001ppm(0.0047g/m³)

ACGIH TLV (STEL): Not Available

Personal Protective Equipment

Eyes: Wear Safety Glasses.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Color: colorless

Phase: Liquid

Melting Point: -41.5 C
Boiling Point: 106 C
Specific Gravity: 1.315
Vapor Density: Approx 0mm@20
Vapor Pressure: Not Available
Solubility in Water: Not Available
Odor: Pungent, acrid
Evaporation Rate (Butyl acetate=1): Not Available

SECTION 10 - STABILITY AND REACTIVITY

Reacts with water and most reactive hydrogen compounds. Decomposed by moisture. Air sensitive. Readily absorbed and retained on clothing and/or shoes. Easily oxidized-May be a peroxide former-Check for peroxides on all opened samples. Decomposition liberates toxic fumes. Sensitive to heat.

SECTION 11 - TOXICOLOGY INFORMATION

RTECS: KN1575000
Oral Rat or Mouse LD50: 210mg/kg
Dermal Rat or Mouse LD50: Not Available
Rat or Mouse LC50 : Not Available

Carcinogenicity

OSHA: Yes
IARC: Yes
NTP: Yes
ACGIH: Yes
NIOSH: Yes
Other: No

This chemical is considered to be a CARCINOGEN by the state of California.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not Available
Environmental Fate: Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL: Burn in a chemicals incinerator equipped with an afterburner and scrubber.

SECTION 14 - TRANSPORTATION INFORMATION

UN Number: UN2249
Class: 6.1
Packing Group: I
Proper Shipping Name: Dichlorodimethyl ether, symmetrical

SECTION 15 - REGULATORY INFORMATION

European Labeling in Accordance with EC Directives
Hazard Symbols: T+

Risk Phrases:

R45: May cause cancer.

R10: Flammable.
R22: Harmful if swallowed.
R24: Toxic in contact with skin.
R26: Very Toxic by inhalation.

Safety Phrase:

S53: Avoid exposure - obtain special instruction before use.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

SECTION 16 - OTHER INFORMATION

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded MSDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

This Material Safety Data Sheet (MSDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an MSDS for a solution or mixture the user should refer to the MSDS for every component of the solution or mixture. Chem Service warrants that this MSDS is based upon the most current information available to Chem Service at the time it

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