# SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Catalog No. L00134

Product Name: Dichloromethyl methyl ether, 97%

Synonyms: a,a-Dichlorodimethyl ether

Manufacturer/Supplier Name: Alfa Aesar - A Johnson Matthey Company

Address: 30 Bond St.

Ward Hill, MA 01835

Business Phone: 978-521-6300
Business Fax: 978-521-6350

For information

in North America, call: 978-521-6300

**CHEMTREC Numbers:** 

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies outside US, call INTERNATIONAL: (703)527-3887

For Nonemergency, call: (800)262-8200

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# SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

Catalog No. L00134

Chemical Name Dichloromethyl methyl ether

**CAS#** 4885-02-3

% Weight (Typical) 97

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# SECTION 3: HAZARDS IDENTIFICATION

Catalog No. L00134

Emergency Overview: Toxic. Combustible. Irritant.

# **Dichloromethyl methyl ether:**

Route of Exposure: Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye Contact: May cause eye irritation.

Skin Contact: May be toxic/irritant

Inhalation: May be toxic/irritant

Ingestion: May be toxic/harmful (no data)

Target Organs: Eyes. Skin. Respiratory system. G.I. Tract. Central Nervous System.

#### SECTION 4: FIRST AID MEASURES

Catalog No. L00134

Eye Contact: Immediately flush eyes with plenty of water for at least 20 minutes.

Assure adequate flushing of the eyes by separating the eyelids with

fingers. Get immediate medical attention if irritation persists, or symptoms

of overexposure become apparent.

Skin Contact: Immediately wash skin with plenty of water for at least 20 minutes, while

removing contaminated clothing and shoes. Get medical attention especially, if irritation develops, persists, or symptoms of overexposure

become apparent.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give

oxygen by trained personnel. Keep warm. Get immediate medical

attention.

Ingestion: If swallowed, call a physician or poison control center immediately. Never

give anything by mouth to an unconscious person. Do not induce vomiting

unless instructed by medical personnel. Get medical attention.

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### SECTION 5: FIRE FIGHTING MEASURES

Catalog No. L00134

Fire: Combustible liquid. Flash Point: 42°C (107.6°F)

Extinguishing Media: Use dry powder or carbon dioxide when fighting a fire involving this

material.

Unsuitable Media: Water extinguishers are not recommended.

As in any fire, wear self-contained breathing apparatus pressure-demand, Protective Equipment:

NIOSH (approved or equivalent) and full protective gear.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

Catalog No. L00134

Use proper personal protective equipment as listed in section 8. Personal Precautions:

Spill Cleanup Measures: Clean up spills immediately, observing precautions in the Protective

Equipment section. Absorb spill with dry inert material such as dry sand, earth, or vermiculite, then place in suitable container. Refer to section 13

for proper disposal.

**Environmental Precautions:** Do not allow material to enter drains or streams.

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### SECTION 7: HANDLING and STORAGE

Catalog No. L00134

This product should be handled only by, or under the close supervision of, Handling:

> those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data. It should always be handled in an efficient fume hood or equivalent system. The user should consider that the toxicological and physiological properties of many compounds are not yet well determined and that new hazardous products may arise from reactions between chemicals. Care should be taken to prevent any chemical from coming into contact with the skin or eyes and from contaminating personal clothing.

Store in a cool, dry, well ventilated area away from sources of heat and Storage:

incompatible substances. Keep container tightly closed when not in use.

Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid Hygiene Practices:

inhaling vapor or mist.

### SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Catalog No. L00134

Engineering Controls: Use appropriate engineering control such as process enclosures, local

exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the

personal protective equipment.

Skin Protection Description: Wear suitable protective clothing to prevent contact with skin.

Hand Protection Description: Wear appropriate protective gloves. Consult glove manufacturers for glove

permeability data.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29

CFR 1910.133, OSHA eye and face protection regulation, or the European

standard EN 166.

Respiratory Protection: A NIOSH approved air-purifying respirator with an appropriate cartridge or

canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited to airborne concentrations that are typically within 10 times the exposure limit. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where

air-purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHAs 29 CFR 1910.134 and

ANSI Z88.2 requirements must be followed whenever workplace

conditions warrant a respirators use.

Other Protective: Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower.

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### SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Catalog No. L00134

Physical State/Appearance: Liquid Color: Colorless

Flash Point: 42°C (107.6°F)

Boiling Point: 85-87°C (185-188.6°F)

 $\begin{tabular}{lll} Melting Point: & No data \\ Solubility in Water: & Immiscible \\ Density: & 1.271 \\ Molecular Formula: & $C_2H_4Cl_2O$ \\ Molecular Weight: & 114.96 \\ \end{tabular}$ 

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# SECTION 10: STABILITY and REACTIVITY

Catalog No. L00134

Conditions to Avoid: Heat, flames and sparks.

Incompatibilities with Other

Materials:

Oxidizing agents. Combustible material.

Possible Decomposition

Product:

Hydrogen chloride.

### SECTION 11: TOXICOLOGICAL INFORMATION

Catalog No. L00134

### **Dichloromethyl methyl ether:**

RTECS Number: KN8150000

Eye Effect:

No data reported in the cited references as of the revision date.

Skin Effects:

No data reported in the cited references as of the revision date.

Ingestion Effects:

No data reported in the cited references as of the revision date.

No data reported in the cited references as of the revision date.

No data reported in the cited references as of the revision date.

Carcinogenicity:

Tumorigenic - equivocal tumorigenic agent by RTECS criteria.

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### SECTION 12: ECOLOGICAL INFORMATION

Catalog No. L00134

Ecotoxicity: No information provided.
Bioaccumulation: No information provided.
Biodegredation: No information provided.
Environmental Stability: No information provided.

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### SECTION 13: DISPOSAL CONSIDERATIONS

Catalog No. L00134

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the

classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or

state and local guidelines, by a licensed disposal company.

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### SECTION 14: TRANSPORT INFORMATION

Catalog No. L00134

DOT Shipping Name: Toxic liquids, flammable, organic, n.o.s. (Dichloromethyl methyl ether)

DOT Hazard Class: 6.1

DOT Identification Number: UN2929

DOT Packing Group: II

DOT Subpart E Labeling 6.1, 3

Requirement:

#### SECTION 15: REGULATORY INFORMATION

Catalog No. L00134

### **Dichloromethyl methyl ether:**

TSCA 8(b): Inventory Status: Listed on the TSCA inventory.

TSCA 12(b): Export Notification None of the chemicals are listed under TSCA Section 12b.

State: Alpha, Alpha-Dichloromethyl Methyl Ether is not present on state lists from

CA, PA, MN, MA, FL, or NJ. California No Significant Risk Level: None of

the chemicals in this product are listed.

Risk Phrases: R10 Flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Possible risks of irreversible effects.

Safety Phrase: S23 Do not breathe vapor

S26 In case of contact with eyes, rinse immediately with plenty of water

and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face

protection.

. S45 In case of accident or if you feel unwell, seek medical advice

immediately

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#### SECTION 16: ADDITIONAL INFORMATION

Catalog No. L00134

MSDS Preparation Date: January 1, 2002, Version 1

April 14, 2003. MSDS Revision Date:

MSDS Author: Actio Corporation.

#### Disclaimer:

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it quarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at

the top of this data sheet. We welcome any additional information about our products that customers have obtained by personal experience.

# References:

- 1. American Chemical Society, STN Easy Online Database
- 2. Brethericks Reactive Chemical Hazards Database. Version 2.
- 3. Gassarett and Doulls Toxicology, The Basic Science of Poisons.
- 4. Hawleys Condensed Chemical Dictionary, Thirteenth Edition
- 5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International Research on Cancer.
- 6. Industrial Hygiene and Toxicology, by F.A. Patty.
- 7. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data Bank (HSDB).
- 8. National Toxicology Program (NTP) Eighth Report on Carcinogens, 1997.
- 9. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical Hazards.
- 10. OSHA Hazard Communication Standard, 1910.1200 and Z Tables.
- 11. Sax Dangerous Properties of Industrial Materials. Tenth Edition.
- 12. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998.
- 13. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environmental and Biological Exposure Indices. TLV Booklet, 2001.

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