



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. DD 31
Effective Date February 20, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	DICHLOROMETHANE	<div><div><div>1</div><div>2</div><div>0</div></div><div>CHEMTREC 800-424-9300 Day 716-226-6177</div><div>NFPA HAZARD RATING LEAST SLIGHT MODERATE 0 1 2</div><div>HMIS * HIGH EXTREME 3 4</div></div>
Chemical Synonyms	Methylene Chloride	
Formula	CH ₂ Cl ₂	
Unit Size	up to 20 Lt.	
C.A.S. No.	75-09-2	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Methylene chloride (stabilized)	>99%	See Section V.
WARNING! HARMFUL IF INHALED OR SWALLOWED.		
VAPOR HARMFUL. CAUSES IRRITATION TO SKIN, EYES		
AND MUCOUS MEMBRANES. SUSPECTED CARCINOGEN. *		

SECTION III PHYSICAL DATA

Melting Point (°F)	-97°C	Specific Gravity (H ₂ O = 1)	1.32 @ (25/25°C)
Boiling Point (°F)	40°C (104°F) @ 760 mm	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	350 mm @ 20°C	Evaporation Rate (Ethyl ether = 1)	0.71
Vapor Density (Air=1)	2.93 @ 20°C		
Solubility in Water	Moderate: approx. 2 grams per 100 mL. water at 20°C.		
Appearance & Odor	Clear, colorless volatile liquid; penetrating ether-like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume @ 25°C	Lower 12%	Upper 19%
Extinguisher Media	Water spray or fog; dry chemical; carbon dioxide.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus for possible exposure to hydrogen chloride and phosgene. This material is very dangerous to the eyes.

* Methylene chloride is not believed to pose a measurable carcinogenic risk to man when handled as recommended. Teratology (Birth Defects): Birth defects are unlikely.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors are heavier than air and will collect in low areas. Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with spark, flame or high intensity heat. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 160)

D.O.T. **DICHLOROMETHANE, 6.1, UN 1593, PG III**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

DD 31

Threshold Limited Value

TWA: 50 ppm; 174 mg/m³ (ACGIH 1992-93). OSHA-PEL TWA: 500 ppm.

Effects of Overexposure

TARGET ORGANS AFFECTED: Liver, kidney, central nervous system. **INHALATION:** Exposure to high vapor concentrations may result in respiratory tract irritation, central nervous system depression, unconsciousness, dizziness. **EYES:** Causes irritation. Possible transient corneal injury. **SKIN:** Causes irritation, dermatitis. **INGESTION:** May cause gastrointestinal tract irritation, central nervous system depression. May be rapidly absorbed through the lungs, through aspiration and result in injury to other body systems.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician immediately. **INGESTION:** If swallowed, if conscious, give water to drink. DO NOT induce vomiting and take immediately to hospital or physician. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **SKIN:** Flush with water, then wash with soap and water. If symptoms of burns or dermatitis appear get medical attention. **NOTE TO PHYSICIAN:** Never administer adrenaline following over-exposure to this product. Increased sensitivity of the heart to adrenaline may be caused.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Open flames, hot glowing surfaces or electric arcs.
	Stable	X		
Incompatibility (Materials to Avoid)		Oxidizing materials, aluminum, sodium, potassium, magnesium and aluminum spray equipment.		
Hazardous Decomposition Products			Highly toxic fumes of Hydrogen chloride, phosgene, carbon monoxide and/or dioxide and chlorine.	
Hazardous Polymerization			Conditions to Avoid	Hydrolysis produces small amounts of hydrochloric acid, possible with gross water contamination.
May Occur	Will Not Occur			
	X			

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Provide maximum ventilation. Methylene chloride volatilizes rapidly. Avoid inhalation and/or skin contact. Absorb material in an inert dry material and place in suitable container for disposal. Prevent run-off from entering drains, sewers, and streams.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in accordance with federal, state and local regulations. Do not dump into sewers, on the ground, or into any body of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Work in fume hood. If needed wear a NIOSH/MSHA-approved full-faced respirator for chlorinated solvents.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.
Protective Gloves	Solvent resistant.		Eye Protection	Goggles.
Other Protective Equipment	Smock, apron, boots, eye wash station, face shield, ventilation hood, proper gloves.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from oxidizing materials. Do not breathe vapors. Avoid eye and skin contact. Loosen closure cautiously before opening. Keep container tightly closed when not in use. Do not store in aluminum containers. Wash thoroughly after handling.
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Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid open flames, welding areas or other high temperature sources which can cause thermal decomposition. Use with adequate ventilation. Remove and launder contaminated clothing. Discard contaminated shoes.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5	Date 2/20/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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