



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
Avon, New York 14414  
(716) 226-6177

MSDS No. DD 31  
Effective Date February 20, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

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

## SECTION II INGREDIENTS OF MIXTURES

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

## SECTION III PHYSICAL DATA

Melting Point (°F)	-97°C	Specific Gravity (H <sub>2</sub> 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

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume @ 25°C</b>	Lower 12%	Upper 19%
<b>Extinguisher Media</b>	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/m<sup>3</sup> (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

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

<b>Respiration Protection (Specify Type)</b>	Work in fume hood. If needed wear a NIOSH/MSHA-approved full-faced respirator for chlorinated solvents.			
<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	<b>No.</b>
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	<b>Adequate to maintain below exposure limit.</b>
<b>Protective Gloves</b>	Solvent resistant.		<b>Eye Protection</b>	Goggles.
<b>Other Protective Equipment</b>	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.

**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

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.