



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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MSDS No. DD 32
Effective Date February 20, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	1,2-DICHLOROETHANE	<div><div><div>3</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	Ethylene Dichloride	
Formula	C ₂ H ₄ Cl ₂	
Unit Size	up to 180 Kg.	
C.A.S. No.	107-06-2	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
1,2-Dichloroethane	100%	See Section V.
DANGER! FLAMMABLE LIQUID! POISON		
HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CAUSES		
SKIN AND EYE IRRITATION. MAY BE FATAL IF SWALLOWED.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezing point -35.7°C (-31°F)	Specific Gravity (H ₂ O = 1)	1.241-1.313 @ 25°C
Boiling Point (°F)	83°C (183°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	62 mm Hg @ 20°C	Evaporation Rate (Butyl Acetate =1)	6.50
Vapor Density (Air=1)	3.4		
Solubility in Water	Slightly soluble.		
Appearance & Odor	Clear, colorless, heavy liquid; odor resembling that of chloroform.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	13°C (56°F) TCC	Flammable Limits in Air % by Volume	Lower 6.2%	Upper 15.9%
Extinguisher Media	Water spray; carbon dioxide (CO ₂); dry chemical (ABC); foam.			

SPECIAL FIREFIGHTING PROCEDURES

Blanketing effect needed to smother fire. Water may be ineffective but can be used to cool fire exposed containers. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Ignition Temperature: 413°C (775°F)

UNUSUAL FIRE AND EXPLOSION HAZARDS

It is a dangerous fire hazard and a moderate explosion hazard when exposed to heat or flame. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors or other ignition sources at locations distant from material handling point.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 129)

D.O.T. ETHYLENE DICHLORIDE, 3, UN 1184, PG II

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

SECTION V

HEALTH HAZARD DATA

DD 32

Threshold Limited Value

RTECS No. KI0525000 Threshold Limit Value (TLV): 10 ppm (TWA), 15 ppm - STEL, (ACGIH 1992-93). Toxicity: LDLo orl-human 286 mg/kg. Orl-rat LD50 670 mg/kg.

Effects of Overexposure

TARGET ORGANS AFFECTED: Liver, kidneys. **INGESTION/INHALATION:** Causes respiratory tract irritation. Prolonged or repeated exposure to high vapor concentrations causes nausea, vomiting, central nervous system depression, gastrointestinal upset, pulmonary edema and changes in the blood, liver and kidney. **EYES:** Vapors causes irritation. Contact with the liquid causes pain, irritation, lacrimation and may result in eye injury. **SKIN:** May be harmful if absorbed through the skin. Causes irritation or on prolonged contact, can cause burns.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician immediately. **SKIN:** Flush thoroughly with water, then wash with mild soap and water.

SECTION VI

REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		
Incompatibility (Materials to Avoid)		Strong oxidizers, strong alkalis. Contact with aluminum or ketone solvents may cause vigorous reaction.		

Hazardous Decomposition Products	Combustion will produce carbon dioxide and probably carbon monoxide, hydrogen chloride, phosgene, or various hydrocarbons.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII

SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Remove all sources of ignition. Wear proper safety equipment. Absorb material in vermiculite or other suitable absorbent and place in proper container for disposal. Ventilate area and wash spill site with soap and water.

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 an approved incinerator equipped with an afterburner and scrubber or contract with a licensed chemical waste disposal service.

SECTION VIII

SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	In the laboratory work in a ventilation hood or wear a NIOSH/MSHA-approved self-contained breathing apparatus.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Yes.	Other	No.
Protective Gloves	Butyl or neoprene.		Eye Protection	Goggles and/or face shield.
Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves, ventilation hood.			

SECTION IX

SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, well-ventilated area away from fire hazards. Outside or detached storage preferable. Protect from physical damage. Avoid breathing vapors. Use with adequate ventilation. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.
Keep container tightly closed when not in use.	

Other Precautions

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

(NCI) Suspected Carcinogen-Based on tests with laboratory animals. Remove and wash contaminated clothing. Destroy contaminated shoes.

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

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