

# MATERIAL SAFETY DATA SHEET

*Product Name:* Ethylene Dichloride  
*Catalog Number:* 10830  
*DOT Hazard Class:* 3 (Flammable Liquid)  
*DOT Proper Shipping Name:* 1,2-dichloroethane  
*UN/NA ID No.:* UN 1184  
*MSDS Updated:* 9/11

*Distributed By:* Ladd Research  
83 Holly Court  
Williston, VT 05495  
(802) 658-4961

## HAZARDOUS COMPONENTS

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
1,2-dichloroethane	107-06-2	100%	50 ppm (OSHA PEL) 10 ppm (ACGIH TLV)

## PHYSICAL AND CHEMICAL DATA

**Boiling Point:** 83.5°C  
**Vapor Pressure:** 83.35 @ 20°C  
**Vapor Density:** 3.4 (air = 1)  
**Specific Gravity:** 1.253 @ 20°C  
**Melting Point:** -35.66°C  
**Solubility:** 0.81% in water at 20°C  
**Evaporation Rate:** 0.3 (ether = 1)  
**Appearance and Odor:** Liquid with ether-like odor.

## FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 13 °C  
**Autoignition Temperature:** 413°C  
**Explosive Limits:** Lower = 6.2; Upper = 16.0  
**Extinguishing Media:** Carbon dioxide or dry chemical for small fires, ordinary foam for large fires.  
**Special Fire Fighting Procedures:** Wear full protective clothing and self-contained breathing apparatus. Keep fire-exposed containers cooled to prevent bursting.  
**Unusual Fire and Explosion Hazards:** Concentrated vapors can be ignited by high intensity heat source or flame.

## HEALTH HAZARD DATA

**Primary Routes of Entry:** Inhalation, skin, ingestion  
**Inhalation:** Irritation to respiratory tract, nausea, vomiting, drowsiness, diarrhea, headache, dizziness, unconsciousness and even death in extreme cases.  
**Skin:** Prolonged or repeated skin contact can cause irritation and dermatitis through delipidation of skin.  
**Eye:** Pain and irritation with corneal injury possible.  
**Ingestion:** Burning of throat and mouth and gastrointestinal distress. Liver damage can occur.

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## EMERGENCY AND FIRST AID

**Inhalation:** Immediately remove to fresh air. If not breathing, administer mouth-to-mouth rescue breathing. Contact physician immediately.  
**Skin:** Flush thoroughly for at least 15 minutes. Wash affected skin with soap and water.  
**Eye:** Rinse with copious amounts of water for at least 15 minutes. Obtain emergency medical assistance.  
**Ingestion:** Call local Poison Control Center for assistance. Contact physician immediately.

**REACTIVITY DATA**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Heat, sparks, open flame, open containers, poor ventilation and moisture.

**Incompatibility:** Strong oxidizing agents, active metals and strong alkaline solutions.

**Hazardous Decomposition Products:** Incomplete combustion can generate phosgene, hydrogen chloride and other toxic vapors.

**SPILL, DISPOSAL AND STORAGE INFORMATION**

**Spill:** Protect from ignition. Absorb spilled material in an absorbent and remove to safe location.

**Disposal:** Dispose of as and EPA hazardous waste (Hazardous waste number U077[toxic]).

**Storage:** Store in an acceptably protected and secure flammable liquid storage room

**PROTECTIVE EQUIPMENT AND CONTROL MEASURES**

**Respiratory:** Use approved respirator.

**Gloves:** Impervious

**Eye:** Goggles or face shield recommended

**Ventilation:** Mechanical ventilation advised

**SECTION 313 SUPPLIER NOTIFICATION**

Ethylene dichloride is regulated by SARA Title III.

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