



COLUMBUS CHEMICAL INDUSTRIES INC.

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Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Ethylene Dichloride

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1 (800) 424-9300

Telephone Number for Information

920-623-2140

Date Prepared

02-22-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Ethylene Dichloride*, 107-06-2, 50 ppm, Not Available, 100 ppm Ceiling.

* Synonym: 1,2-Dichloroethane

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value 1, Property, Value 2. Rows: Boiling Point (84 °C (182 °F)), Specific Gravity (H2O = 1) (1.2550), Vapor Pressure (mm Hg) @ 25°C (78.9 mmHg), Melting Point (-35°C (94 °F)), Vapor Density (AIR = 1) (3.42), Evaporation Rate (Butyl Acetate = 1) (5.05).

Solubility in Water
0.869 g/100 ml water @ 20 deg C

Appearance and Odor
Clear, Colorless oily liquid

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Property, Flammable Limits, LEL, UEL. Row 1: Flash Point (Method Used) 13 °C / 56 °F (Tag. closed cup).

Extinguishing Media
Carbon dioxide, "alcohol-type foam" or dry chemical

Special Fire Fighting Procedures

Wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Use water spray to cool containers.

Unusual Fire and Explosion Hazards
There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the container. Vapor can travel to an ignition source and flash back. Autoignition temperature 413 °C (775 °F)

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Heat, ignition sources
	Stable	X	Incompatibles	

Incompatibility Materials to Avoid

Metal powders, organic peroxides, nitric acid, ammonia, reducing agents, caustics.

Hazardous Decomposition or Byproducts

Carbon oxides

Hazardous Polymerization	Conditions to Avoid		
	May Occur		Not applicable.
	Will Not Occur	X	

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

May be fatal if swallowed; harmful if inhaled or absorbed through skin. Causes skin, eye and upper respiratory tract irritation. Can cause central nervous system depression. Chronic exposure can cause liver, heart, and kidney damage. Possesses narcotic like activities. Carcinogen.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Class 2 possible	Class 2b possible	Yes Proven

Signs and Symptoms of Exposure.

Moderate exposure can cause headache, nausea, tearing and blurred vision. Overexposure may produce depression, dizziness, drowsiness, fatigue and blindness. Ingestion may cause gastrointestinal irritation.

Medical Conditions Generally Aggravated by Exposure Expected to aggravate asthma, emphysema, other respiratory diseases and existing dermatitis.

Emergency and First Aid Procedures **INGESTION:** If swallowed, wash out mouth with water, call a physician. Do not leave victim unattended. **EYES:** In case of contact, immediately flush with large amounts of water for at least 15 minutes. Call physician. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician. **SKIN:** Immediately wash skin with soap and large amounts of water.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Evacuate area. Wear NIOSH/MSHA-approved respirator, chemical-resistant goggles, rubber boots, apron and heavy rubber gloves. Contain spill with dikes, sand or noncombustible absorbent material. Sweep up and place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method Dispose of spillage, empty containers, and other materials used for clean up in accordance with all Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a resistant area away from oxidizers. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe vapors. Keep away from ignition sources.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Ground containers and ensure ventilation when transferring material.

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA approved respirator fitted with organic vapor cartridge.

Ventilation	Local Exhaust	Necessary	Special	Eye wash nearby.
	Mechanical (General)	Recommended	Other	Safety Shower nearby.

Protective Gloves Appropriate Chemical Resistant Eye Protection Chemical Safety Goggles

Other Protective Clothing or Equipment Protective clothing, faceshield and boots is recommended.

Work /Hygienic Practices Wash thoroughly after handling. Avoid eye and skin contact. Avoid breathing vapors.

Follow safe handling and laboratory practices. Wash hands prior to eating or smoking.

FLAMMABLE! Avoid prolonged or repeated contact.

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