SDS #: 329
Revision Date: September 22, 2014

9-20-2021: File reviewed, more current MSDS/SDS not available. JMC

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Ethylene Dichloride

Signal Word
DANGER

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9761

SECTION 2 — HAZARDS IDENTIFICATION

Pictograms

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat or drink when using this product (P270).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing vapors, mist or spray (P261).

Hazard class: Carcinogenicity (Category 1). May cause cancer (H350). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281). Possible human carcinogen (IARC-2B).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ethylene dichloride Synonyms: 1,2-Dichloroethane	107-06-2	$C_2H_4Cl_2$	98.97	

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313).
If on skin: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).
If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P301+P330+P312).

SECTION 5 — FIRE FIGHTING MEASURES

Class 1B flammable liquid.
Flash point: 13 °C Flammable limits: Lower: 6.2% Upper: 16% Autoignition Temperature: 413 °C

NFPA Code
H-2
F-3

When heated to decomposition, may emit toxic fumes. R-0
In case of fire: Use a tri-class dry chemical fire extinguisher.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #4. Store with ethers, ketones, and halogenated hydrocarbons.
Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in a Flinn Saf-Stor™ can. Keep container tightly closed (P233). Keep cool (P235). Ground or bond container and receiving equipment (P240). Take precautionary measures against static discharge (P243).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).
Exposure guidelines: PEL 50 ppm, Ceiling 100 ppm (OSHA), TLV 10 ppm (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless, oily liquid. Chloroform-like odor.
Soluble: Slightly in water. Miscible with most common organic solvents.

Boiling point: 83.5 °C
Melting point: -36 °C
Refractive index: 1.4422
Specific gravity: 1.2454

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizers and aluminum.
Shelf life: Poor. Gradually decomposed by air, light, and moisture forming hydrochloric acid. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant, nausea, headache, vomiting, gastrointestinal disturbances.
Chronic effects: Causes dermatitis, possible mutagen.
Target organs: Liver, kidneys.

ORL-RAT LD_{50}: 670 mg/kg
IHL-RAT LC_{50}: 1000 ppm/7H
SKN-RBT LD_{50}: 2800 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.
Flinn Suggested Disposal Method #27j is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Ethylene dichloride. Hazard class: 3, Flammable liquid, poison. UN number: UN1184.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (203-458-1), RCRA code U077.

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.
N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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