

MATERIAL SAFETY DATA SHEET**Product Name:** Ethylene dichloride**CAS No.:** 107-06-2**Version:** 1**1. Identification**

Product Code : 90597,90072,91566
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2. Hazards Identification**Hazard classification**

Flammable liquids : Category 2
Acute toxicity, Oral : Category 4
Acute toxicity, Inhalation : Category 3
Carcinogenicity : Category 1 B
Skin corrosion : Category 2
Eye irritation : Category 2
Specific target organ toxicity - single exposure : Category 3

Label elements**Hazard symbol****Signal word****Hazard statement**

: Danger
: Highly flammable liquid and vapour.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Toxic if inhaled.
May cause respiratory irritation.
May cause cancer.

Precautionary statement

: Obtain special instructions before use.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing vapours.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.

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Continue rinsing.
Call a POISON CENTER or doctor/ physician.
: None.

3. Composition/information on ingredients

Ingredient	CAS No
Ethylene dichloride	107-06-2

4. First Aid Measures**Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact

: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Eye contact

: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Swallowed

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed Treatment

: No data available

5. Fire fighting measures**Extinguishing media****Suitable extinguishing media**

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

: Carbon oxides, Hydrogen chloride gas

Advice for firefighters

: Wear self contained breathing apparatus for firefighting if necessary

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Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage, including any incompatibilities : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.**Specific end use(s)** : No data available**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls****Appropriate engineering controls** : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.**Personal protective equipment****Eye/face protection** : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).**Skin Protection Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer

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- surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Body Protection** : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace..
- Respiratory protection** : Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : Liquid.
- Odor** : No data available
- pH** : No data available
- Melting point/freezing point** : -35 °C - lit.
- Initial boiling point and boiling range** : 83 °C - lit.
- Flash Point** : 13.0 °C - closed cup
- Vapor pressure** : 33.3 h Pa at 0 °C
- Vapor density** : No data available
- Relative density** : 1.256 g/mL at 25 °C - lit.
- Solubility in water** : Slightly soluble
- Solubility (other)** : No data available
- Formula** : C₂H₄Cl₂
- Molecular Weight** : 98.96 g/mol

10. Stability and Reactivity

- Reactivity** : No data available
- Chemical stability** : Stable under recommended storage conditions.
- Possibility of hazardous reactions** : No data available
- Conditions to avoid** : Heat, flames and sparks. Extremes of temperature and direct sunlight.
- Incompatible materials** : Strong oxidizing agents
- Hazardous decomposition products** : No data available

11. Toxicological Information**Information on toxicological effects**

- Acute toxicity** : LD50 Oral - Rat - 670,0 mg/kg
LC50 Inhalation - Rat - 4 h - 3,879 mg/l
LD50 Dermal - Rabbit - 2.800 mg/kg

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	Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation.
Skin corrosion/irritation	: Causes irritation
Serious eye damage/eye irritation	: Moderate eye irritation
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: Laboratory experiments have shown mutagenic effects.
Carcinogenicity	: Carcinogenicity - Rat - Oral Tumorigenic: Carcinogenic by RTECS criteria. Gastrointestinal: Tumors. Skin and Appendages: Other: Tumors. This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Possible human carcinogen IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylene dichloride)
Reproductive toxicity	: Reproductive toxicity - Rat - Inhalation Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).
Specific target organ toxicity - single exposure	: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	: No data available.
Aspiration hazard	: No data available
Signs and Symptoms of Exposure	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity	: Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 225,00 mg/l - 96 h NOEC - Cyprinodon variegatus (sheepshead minnow) - 130 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 540,00 mg/l - 24 h Immobilization EC50 - Daphnia magna (Water flea) - 160 mg/l - 48 h
Persistence and degradability	: Biotic/Aerobic - Exposure time 21 d Result: < 20 % - Not readily biodegradable.

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Bioaccumulative potential : Remarks: Not applicable
: Lepomis macrochirus (Bluegill) - 14 d
- 95,6 µg/l
Bioconcentration factor (BCF): 2

Mobility in soil : No data available.

Other adverse effects : No data available.

13. Disposal consideration

Disposal instructions : Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Dispose of as unused product.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	1184	ETHYLENE DICHLORIDE	3	II	NO
IMDG	1184	ETHYLENE DICHLORIDE	3	II	NO
IATA	1184	ETHYLENE DICHLORIDE	3	II	NO

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date** :02/01/2017**Version** : 1

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