Material Safety Data Sheet

ETHYLENE DI CHLORIDE EDC (RXSOL-19-1181-025)

1. Product and Company Identifaction

Product Name	RXSOL-19-1181-025
Product Type	ETHYLENE DI CHLORIDE EDC

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kolkata, Chennai, Gandhidham, Visakhapatnam, Fujairah, Muscat

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Ingredient	CAS No	Percent
1,2-Dichloroethane	107-06-2	99.9+%

3. Hazards Identification

Highly flammable. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause cancer.

Eye:	Causes severe eye irritation. Contact with liquid or vapor causes severe burns and possible irreversible eye damage. Causes redness and pain.
Skin:	Causes mild skin irritation. May be absorbed through the skin. Causes redness and pain.
Ingestion:	Harmful if swallowed. May cause central nervous system depression, kidney damage, and liver damage. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause effects similar to those for inhalation exposure.
Inhalation:	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause liver and kidney damage.
Chronic:	Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis. May cause liver and kidney damage.

4. First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

5. Fire-fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back

Extinguishing Media:For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective.

6. Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

7. Handling and Storage

Handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Use with adequate ventilation. Do not get on skin and clothing. Keep container tightly closed. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.
Storage:	Keep away from heat, sparks, and flame. Store in a tightly closed container. Keep under a nitrogen blanket. Keep from contact with oxidizing materials. Store in a cool, dry, wellventilated area away from incompatible substances. Flammables-area.

8. Exposure controls and personal protection

Engineering Controls	Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Exposure Limits	CAS# 107-06-2: United Kingdom, WEL - TWA: 5 ppm TWA; 21 mg/m3 TWA United Kingdom, WEL - STEL: 15 ppm STEL; 63 mg/m3 STEL United States OSHA: 50 ppm TWA; 100 ppm Ceiling Belgium - TWA: 10 ppm VLE; 41 mg/m3 VLE France - VME: 10 ppm VME; 40 mg/m3 VME Germany: 5 ppm TWA; 20 mg/m3 TWA Japan: 10 ppm OEL; 40 mg/m3 OEL Malaysia: 10 ppm TWA; 40 mg/m3 TWA Netherlands: 1.5 ppm MAC; 7 mg/m3 MAC Russia: 10 mg/m3 TWA (vapour) Spain: 5 ppm VLA-ED; 20 mg/m3 VLA-ED

Personal Protective Equipment	Eyes: Wear chemical splash goggles. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure. Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. Physical and chemical properties

Physical State: Clear liquid

Color: colorless Odor: chloroform-like

pH: Not available

Vapor Pressure: 65mmHg @29 deg C

Viscosity: 0.8 mPas @20 deg C

Boiling Point: 81 - 85 deg C @760mmHg

Freezing/Melting Point: -35 deg C (-31.00°F)

Autoignition Temperature: 440 deg C (824.00 deg F)

Flash Point: 13 deg C (55.40 deg F)

Explosion Limits: Lower: 6.2 Vol %

Explosion Limits: Upper: 15.9 Vol %

Decomposition Temperature: Not available

Solubility in water: 8.7 g/l (20°C)

Specific Gravity/Density: 1.250

Molecular Formula: C2H4Cl2

Molecular Weight: 98.96

10. Stability and reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, light, ignition sources, excess heat, electrical sparks.

Incompatibilities with Other Materials Strong oxidizing agents, reducing agents, bases, alkali metals, aluminum, liquid ammonia, nitric acid, organic peroxides.

Hazardous Decomposition Products Hydrogen chloride, carbon monoxide, carbon dioxide.

Hazardous Polymerization Will not occur.

11. Toxicological information

RTECS#: CAS# 107-06-2: KI0525000

LD50/LC50: RTECS:

CAS# 107-06-2: Draize test, rabbit, eye: 63 mg Severe; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Inhalation, mouse: LC50 = 1060 mg/m3/6H; Inhalation, rat: LC50 = 1000 ppm/7H; Inhalation, rat: LC50 = 5100 mg/m3/6H; Oral, mouse: LD50 = 413 mg/kg; Oral, mouse: LD50 = 413 mg/kg; Oral, rabbit: LD50 = 860 mg/kg; Oral, rabbit: LD50 = 0.7 mL/kg; Oral, rat: LD50 = 500 mg/kg; Skin, rabbit: LD50 = 2800 mg/kg; Other: Skin, rabbit: 625 mg mild

Carcinogenicity: 1,2-Dichloroethane - California: carcinogen, initial date 10/1/87 NTP: Suspect carcinogen IARC: Group 2B carcinogen

Other: See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity: Not available

13. Disposal considerations

Dispose of in a manner consistent with federal, state, and local regulations

14. Transport information

Proper Shipping Name:	ETHYLENE DICHLORIDE		
UN NO.	1184		
Hazard Class	3	PackingGroup	II
Proper Shipping Name	ETHYLENE DICHLORIDE		
ADR UN No.	1184		
ADRHazardClass	3		II
Proper Shipping Name	ETHYLENE DICHLORIDE		
IMDG UN No.	1184		
IMDG Hazard Class	3	IMDG PackGroup.:	II
IMDG EmS		IMDG subrisk	-
IMDG Labels	3	IMDG Flashpoint:	N/A

15. Regulatory information

European/International Regulations :

European Labeling in Accordance with EC Directives

Hazard Symbols: T F

Risk Phrases:

R 45 May cause cancer.

R 11 Highly flammable.

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). WGK (Water Danger/Protection)

CAS# 107-06-2: 3 Canada

CAS# 107-06-2 is listed on Canada's DSL List US Federal

TSCA

CAS# 107-06-2 is listed on the TSCA Inventory.

16. Other information

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents.The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product .in terms of safety requirements and does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other.

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