

1. Product and Company Identification

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Product Name

Product Type

RXSOL-41-4048-025

Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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Email

mail@rxmarine.com

2. Composition / Information on ingredients

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Ingredient(s)

CAS #

Percent

Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio) ethylene dichloride 31075-24-8

20 -40

3. Hazards Identification

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HAZARD STATEMENT
H228: Highly flammable
H314: Causes severe skin burns and eye damage
H332: Irritating to respiration
H336: May cause drowsiness or dizziness
P201: Read the label and hazard statements
P202: Do not breathe dust, fumes, gas, mist, vapors or spray
P223: Highly flammable. Keep away from heat, open flames, sparks and other sources of ignition
P231+P232: Store in a dry place. Keep container tightly closed
P233: Keep container closed when not in use
P240: Wear protective gloves/protective clothing/protective equipment and eye protection
P241: Wear eye protection
P242: Wear protective gloves/protective clothing/protective equipment and eye protection
P243: Wear protective gloves/protective clothing/protective equipment and eye protection
P244: Wear eye protection
P273: Do not release into the environment
P501: Dispose of contents and container in accordance with local, national, and international regulations
Prepared by: RX MARINE INTERNATIONAL
Date: 01/01/2018
Version: 1.0

4. First Aid Measures

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First aid procedures

Eye contact :

Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin contact :

Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation :

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion

Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

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Flammable properties

Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media

Fog. Dry chemical. Foam.

space

space Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Chlorine gas.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

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Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

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Handling	Use good industrial hygiene practices in handling this material. When using do not eat or drink. Avoid contact with skin and clothing. Avoid contact with eyes. Avoid breathing vapors or mists of this product. Keep container tightly closed.
Storage	Use only with adequate ventilation. Wash thoroughly after handling. Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure controls and personal protection

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Exposure limits	
Ingredient(s)	Exposure Limits
Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]	ACGIH-TLV Not established OSHA-PEL Not established
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Avoid breathing mists or vapors. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

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Appearance	Liquid.
Color	Amber
Form	Liquid
Odor	Characteristic
Odor threshold state	Not available
Liquid	
pH	6.5 (Concentrate)
Freezing point	32.00 °F (0 °C)
Boiling point	212.00 °F (100 °C)
Pour point	Not available
Evaporation rate	Not available
Flash point	None to boiling
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume space	
Flammability limits in air, upper, % by volume space	Not available
Not available	
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.07
Octanol/water coefficient	Not available
Solubility (H2O)	Complete
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	70

10. Stability and reactivity

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Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Oxidizers. Acids.
Hazardous decomposition products	Oxides of carbon. Chlorine gas. May include and are not limited to:

11. Toxicological information

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Component analysis - LC50

Ingredient(s)	LC 50
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Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride] Not available

Component analysis - Oral LD50

Ingredient(s)	LD 50
Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]	3700 mg/kg rat

Effects of acute exposure

Eye	May cause irritation.
Skin	May cause irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitization	Non-hazardous by OSHA criteria.
Chronic effects	Non-hazardous by OSHA criteria.
Carcinogenicity	Non-hazardous by OSHA criteria.
Mutagenicity	Non-hazardous by OSHA criteria.
Reproductive effects	Non-hazardous by OSHA criteria.
Teratogenicity	Non-hazardous by OSHA criteria.
Name of Toxicologically Synergistic	Not available

12. Ecological information

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Ecotoxicity Marine Pollutant	
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	This product is toxic to fish.
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available

13. Disposal considerations

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Disposal instructions	Dispose in accordance with all applicable regulations.
spaceWaste from residues / unused products space	Not available
Contaminated packaging	Not available

14. Transport information

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15. Regulatory information

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Occupational Safety and Health Administration (OSHA)

space

29 CFR 1910.1200 hazardous chemical

Yes

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

space

EPA Registration Number 1448-233-65516

CERCLA (Superfund) reportable quantity

None space

Superfund Amendments and Reauthorization Act of 1986 (SARA)

space

space

Hazard categories

Section 302 extremely hazardous substance

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

No

space

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

space

Clean Water Act (CWA) Not available

space

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

16. Other information

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_____ and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the _____
