Material Safety Data Sheet

Algaecide (RXSOL-41-4048-025)

1. Product and Company Identifaction

Product Name	**Algaecide (4108)**
Product Type	**RXSOL-41-4048-025**

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

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2. Composition / informationon ingredients

Ingredient(s)	CAS #	Percent
Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio) ethylene dichloride	**31075-24-8**	**20 -40**

3. Hazards Identification

Emergency overview	**CAUTION** **MAY CAUSE SKIN IRRITATION. MAY CAUSE EYE IRRITATION.** **MAY CAUSE RESPIRATORY TRACT IRRITATION.**
Potential short term health effects	
Routes of exposure	**Eye, Skin contact, Inhalation, Ingestion.**
Eyes	**May cause irritation.**
Skin	**May cause irritation.**
Inhalation	**May cause respiratory tract irritation.**
Ingestion	**May cause stomach distress, nausea or vomiting.**
Target organs	**Eyes. Skin.**
Chronic effects	**Prolonged or repeated exposure can cause drying, defatting and dermatitis.**
Signs and symptoms	**Symptoms may include redness, edema, drying, defatting and cracking of the skin.** **Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.**
OSHA Regulatory Status	**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**
Potential environmental effects	**See section 12.**

4. First Aid Measures

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

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

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

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. Use only with adequate ventilation. Wash thoroughly after handling.**

Storage **Keep out of reach of children. Store in a closed container away from incompatible materials.**

8. Exposure controls and personal protection

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

Appearance	Liquid.
Color	Amber
Form	Liquid
Odor	Characteristic
Odor threshold	Not available
state 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

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

Component analysis - LC50

Ingredient(s)	LC 50

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 Products	Not available

12. Ecological information

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

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

14. Transport information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

15. Regulatory information

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)*
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes
A "Yes" indicates that all components of this products comply with the inventory requirements administered by the governing country (s)

16. Other information

Information contained herein was obtained from sources considered technically accurate 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 use of or reliance on any information contained in this document.

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first