Material Safety Data Sheet

RXSOL ORG 7914 BIOCIDE ALGAECIDE (RXSOL-40-4048-025)

1. Product and Company Identifaction

Product Name	RXSOL ORG 7914 (BIOCIDE ALGAECIDE)
Part Number	RXSOL-40-4048-025

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

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Visakhapatnam, Fujairah, Muscat, Nairobi

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2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Num
Poly[oxyethylene(dimethyliminio) ethylene(dimethyliminio)ethylene dichloride]	31075-24-8	
Non Hazardous Ingirdent		

3. Hazards Identification

Signal Word	Warning
Hazard Statements	Causes serious eye irritation. Harmful if inhaled
Precautionary statements - prevention	Avoid breathing vapors. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear eye/face protection.
Precautionary statements - response	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

4. First Aid Measures

Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin Contact	If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice
Ingestion:	Do not induce vomiting. Obtain medical attention.If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

Flammability	Non-flammable.
Flash Point	Not applicable.
Suitable extinguishing media	Treat for surrounding material.
Hazardous combustion products	When heated to decomposition, it emits acrid smoke and fumes.
Protective Equipment	Firefighters should wear full protective clothing including self-contained breathing apparatus. Move containers from fire area if you can do so without risk.
Specific Hazards Arising from the Chemical	Not considered to be a significant fire risk.

6. Accidental Release Measures

Small Spillage	Use appropriate tools to put the spilled Liquid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spillage	Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
Personal Protection	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.
Enviromental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts

7. Handling and Storage

Handlin	Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Avoid contact with skin and clothing. Avoid breathing vapors or mists of this product. Keep container tightly closed. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
Storage	Light Sensitive. Refrigerate. Store in light-resistant containers. Keep containers tightly closed. Keep containers in a cool, wellventilated area.Packing : Only packagings which are approved (e.g. acc. to ADR) may be used.
Advice on general occupational hygiene	Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.

8. Exposure controls and personal protection

Engineering Control	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Personal Protection	**Eye/face Protection** : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin and body protection** : Wear appropriate protective gloves and clothing to prevent skin exposure. **Respiratory Protection** : 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 exposure limits are exceeded or if irritation or other symptoms are experienced.
Other Protection Measure	Handle in accordance with good industrial hygiene and safety practice.
Exposure Limit	No exposure limits noted for ingredient(s).



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Colour	Amberr
Odour	Characteristic
Odor Threshold	No Information Available
pH	6.5
Freezing Point	0 °C

Boiling Point	101°C
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability (solid, gas)	No Data Available
Explosive limits	No Data Available
Vapour pressure	Not Available
Vapour Density	Not Available
Relative density Information	1.00 - 1.07 at 25 °C
Partition coefficient	No data available
Explosive properties	None
Solubility	Soluble in water
Ignition temperature	Not Available
Decomposition temperature	Not available

10. Stability and reactivity

Recativity	This product may react with strong oxidizing agents.
Stability	Product is stable.
Possibility of hazardous reactions	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Oxidizers. Acids.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. Toxicological information

Rout Of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animal	Acute toxicity Harmful if inhaled.Components Species Test Results Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride] (CAS 31075-24-8) Acute Dermal LD50 Rabbit > 2000 mg/kg Inhalation LC50 Rat 2.9 mg/l/4h Oral LD50 Rat 3700 mg/kg 1951 mg/kg, male rat 1850 mg/kg, female rat
Toxic Effects on Humans	CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.)
Special Remarks on other Toxic Effects on Humans:	Potential Health Effects: Eye: Causes severe eye irritation. May cause eye injury or chemical conjunctivitis. Skin: Causes moderate to severe skin irritation. It may be absorbed through the skin, although poorly. May cause allergic contact dermatitis with itching and skin rash. May cause staining of the skin and nails to a brown or golden brown color. Ingestion: Harmful if swallowed. May cause severe irritation of the digestive tract with burning sensation in the chest, abdominal pain, cramping, vomiting. Harmful if inhaled. Can cause respiratory tract irritation and sudden headaches.

12. Ecological information

Eco Toxicity	This pesticide is toxic to fish, aquatic organisms and clams.
COD and BOD 5	Not Available
Products of Biodegradation:	No Information available
Mobility in soil	No Information available
Results of PBT and vPvB assessment	No Information available
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Waste treatment Method	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself

14. Transport information

DOT

UN Number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.(Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio ethylene dichloride])
Hazard Class	9
Packing group	III

TDG

UN Number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.(Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio ethylene dichloride])
Hazard Class	9
Packing group	III

IATA

UN Number	**UN3082**
Proper shipping name	**Environmentally hazardous substance, liquid, n.o.s.(Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio ethylene dichloride])**
Hazard Class	**9**
Packing group	**III**

IMDG/IMO

UN Number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.(Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio ethylene dichloride])
Hazard Class	9
Packing group	III
Marine Polluant	No

15. Regulatory information

This is an EPA registered product. This material can only be used commercially in the EPA registered application(s) noted on the product label. This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
EPA Registration Number 1448-233-65516
PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. CAUTION: Causes moderate eye irritation. Harmful if swallowed. Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Wear chemical-resistant eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash clothing before reuse.
ENVIRONMENTAL HAZARD: This pesticide is toxic to fish, aquatic organisms and clams. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination
System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Other Regulation	Not Regulated
WHMIS(Canada)	Not Regulated
DSCL (EEC)	Not Regulated

HMIS

Health Hazard	: 1
Fire Hazard	: 0
Reactivity	: 0
Personal Protection	: H

Fire :

Health Hazard	: 1
Fire Hazard	: 0
Reactivity	: 0
Specific Hazard	: H

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **Rx Marine International** has been advised of the possibility of such damages.