Material Safety Data Sheet

Biocide and Biodispersant (RXSOL-43-4098-025)

1. Product and Company Identifaction

Porduct Name	Biocide and Biodispersant
Part Number	RXSOL-43-4098-025

Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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Email	mail@rxmarine.com
Website	www.rxmraine.com

2. Composition / informationon ingredients

Product name	Cas No	EC NO	Weight
Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylenedichloride]	31512-74-0	-	2.22%
SODIUM LAURIMINODIPROPIONATE	14960-06-6	239-032-7	1-5%
TRIBUTYLTETRADECYL PHOSPHONIUM CHLORIDE	81741-28-8	279-808-2	2.78%

3. Hazards Identification

Signal Word	Warning
Hazard Statements	H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+352 IF ON SKIN: Wash with plenty of soap and water. P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P501 Dispose of contents/container in accordance with national regulations.
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
Other hazards	No data available

4. First Aid Measures

General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled	Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. For breathing difficulties oxygen may be necessary. Get medical attention.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.
Swallowed	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Rinse mouth thoroughly. Get medical attention immediately!
Skin Contact	Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Inhalation	No data available
Ingestion	No data available
Most important symptoms and effects, both acute and delaye	Congestion of the lungs may occur producing severe shortness of breath. Ingestion May cause chemical burns in mouth and throat. Nausea, vomiting. Skin Contact Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Eye Contact May cause blurred vision and serious eye damage
Indication of any immediate medical attention and special treatment needed	Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire-fighting Measures

Flammability	No data available
Extinguishing media	Water spray, fog or mist. Foam, carbon dioxide or dry powder.
Special hazards arising from the substance or mixture	Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of: Phosphorus. Chlorine.
Further information	No data available
Hazardous combustion products	No unusual fire or explosion hazards noted. This material will not burn until the water has evaporated. Residue can burn
Advice for firefighters	Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.
Protective Equipment	Self contained breathing apparatus and full protective clothing must be worn in case of fire. Leave danger zone immediately.
Specific Hazards Arising from the Chemical	No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Follow precautions for safe handling described in this material safety data sheet. For personal protection, see section 8.
Spillage	No data available
Personal Protection	No data available
Enviromental Precaution	Avoid release to the environment. To prevent release, place container with damaged side up.
Methods and materials for containment and cleaning	Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect and reclaim or dispose in sealed containers in licensed waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Product is toxic to aquatic organisms. Minimise/prevent product from entering drains or water courses
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Advice on protection against fire and explosion	No data available
Incompatible materials	No data available
Hygiene measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.
Advice on safe handling	Avoid spilling, skin and eye contact. Avoid forming spray/aerosol mists. Observe good chemical hygiene practices.
Storage conditions	Store in tightly closed original container in a dry, cool and well-ventilated place. Store at temperature below 50°C. Do not store for extended periods below freezing point or in direct sunlight. IF FROZEN: once fully thawed, agitate container vigorously to ensure the product is homogeneous. Keep separate from food, feedstuffs, fertilizers and other sensitive materialp away from combustible materials and sources of ignition.Recommended storage temperature 2 - 8 °C
Storage class	Miscellaneous hazardous material storage
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.

Advice on general occupational hygiene	No data available

8. Exposure controls and personal protection

Exposure controls	Personal protective equipment
Engineering Control	Provide sufficient ventilation during operations which cause vapor formation.
Eye/face protection	Wear approved safety goggles. Use face shield in case of splash risk.
Body Protection	Wear apron or protective clothing in case of contact.
Skin protection	Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Wear appropriate clothing to prevent any possibility of skin contact.
Respiratory protection	If exposure to spray, mist or vapours is possible wear respirator face mask with appropriate cartridge. A respiratory protection programme that meets OSHA 1910.134 and ANZI Z88.2 requirements must be followed whenever work place conditions warrent a respirator's use.
Other Protection Measure	No data available

9. Physical and chemical properties

Physical state	Clear liquid.
Colour	Yellow to amber
Odour	Slight odor
Odor Threshold	No data available
pH	6.0 - 7.0
Melting Point	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Viscosity	1.40 - 1.60 cSt 20°C
Density	No data available
Relative Density	0.90 - 1.10 20°C
Specific Gravity	No data available
Partition coefficient	No data available.
Explosive properties	No data available
Solubility	Miscible with water
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

Reactivity	No specific reactivity hazards associated with this product
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibilityof hazardous reactions	No data available

Conditions to avoid	Avoid excessive heat for prolonged periods of time
Incompatible materials	Strong acids. Strong alkalis
Hazardous decomposition products	Carbon dioxide (CO2). Carbon monoxide (CO). Chlorine. Oxides of: Phosphorus

11. Toxicological information

Acute toxicity	Acute Toxicity (Oral LD50) > 2000 mg/kg Rat Acute Toxicity (Dermal LD50) > 2000 mg/kg Rat Acute Toxicity (Inhalation LC50) 1.55 mg/l (dust/mist) Rat
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Carcinogenicity	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Additional Information	No data available

12. Ecological information

Persistence and degradability	No data available
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity	The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Bioaccumulation potential	No data available
Mobility in soil	The product is miscible with water. May spread in water systems.
Results of PBT and vPvB assessment	No data available
Endocrine disrupting properties	No data available
Other adverse effects	No data availalble

13. Disposal considerations

Product	No data available
Disposal Methods	Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal.
Waste treatment Method	When handling waste, consideration should be made to the safety precautions applying to handling of the product.

14. Transport information

UN number	ADR/RID:3082	IMDG:3082	IATA:3082
UN proper shipping name	ADR/RID:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Contains tributyltetradecylphosphonium chloride)	IMDG:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Contains tributyltetradecylphosphonium chloride)	IATA:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Contains tributyltetradecylphosphonium chloride)

Transport hazard class(es)	ADR/RID:9	IMDG:9	IATA:9
Packaging group	ADR/RID:III	IMDG:III	IATA:III
Environmental hazards	ADR/RID:No	IMDG:No	IATA:No
Special precautions for user	No data available		
Further information	No data available		

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	This Product is Hazardous under the OSHA Hazard Communication Standard. SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372. PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity and for which warnings are now required.
Other regulations	No data available
Chemical Safety Assessment	A Chemical Safety Assessment has been carried out for this substance.

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 weassume 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.