

1. Product and Company Identification

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Product Name RO Biocide
Part Number RXSOL-33-3355-210

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Product name	Cas No	EC No	Weight	Formula
RO Biocide	10222-01-2	233-539-7	10-30%	-

3. Hazards Identification

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Signal Word	Danger
Hazard Statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.
Precautionary statements	P261 Avoid breathing vapour/spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/container in accordance with national regulations. P401 Store 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

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General advice	No data available
If inhaled	No data available
Eye Contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention

Swallowed	No data available
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. Wash with polyethylene glycol 400 if available
Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Keep affected person warm and at rest. Get medical attention immediately. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.
Most important symptoms and effects, both acute and delaye	None noted, however, the casualty should be transferred to hospital if any unusual adverse symptoms develop.
Indication of any immediate medical attention and special treatment needed	No specific recommendations. If in doubt, get medical attention promptly

5. Fire-fighting Measures

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Flammability	No data available
Suitable extinguishing media	Water spray, fog or mist. Foam. Dry chemicals.
Unsuitable extinguishing media	No data available
Special hazards arising from the substance or mixture	No unusual fire or explosion hazards noted
Further information	No data available
Hazardous combustion products	When heated, vapours/gases hazardous to health may be formed.
Advice for firefighters	Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Protective Equipment	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing
Specific Hazards Arising from the Chemical	No data available

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	No data available
Spillage	No data available
Personal Protection	Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental Precaution	Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Observe all national regulations
Methods and materials for containment and cleaning	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. For waste disposal, see Section 13.
Reference to other sections	For personal protection, see Section 8.

7. Handling and Storage

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Advice on protection against fire and explosion	No data available
Incompatible materials	No data available
Hygiene measures	Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Advice on safe handling

Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Conditions for safe storage including any incompatibilities

Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented.

Storage conditions

No data available

Storage class

Keep container tightly closed, in a cool, well ventilated place. Only store in correctly labelled containers. Keep away from food, drink and animal feeding stuffs. Store under well-ventilated conditions at a temperature below 25°C.

Specific end use(s)

Chemical storage

Advice on general occupational hygiene

Use as directed by supplier

No data available

8. Exposure controls and personal protection

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Exposure controls

Personal protective equipment

Engineering Control

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. All handling should only take place in well-ventilated areas.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Body Protection

Protective Clothing

Skin protection

It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. Wear protective gloves made of the following material: Neoprene, nitrile, polyethylene or PVC. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Wear appropriate clothing to prevent any possibility of skin contact

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

Other Protection Measure

No data available

9. Physical and chemical properties

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Physical state

Liquid

Colour

Colourless to brown solution

Odour

Mild.

Odor Threshold

No data available

pH

5 approx.

Melting Point

-50°C

Boiling Point

>70°C @

Flash Point

>182°C PMCC

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

> 140 °C

Vapour pressure

18.9 mm Hg @ °C

Viscosity

20 cP @ 25°C

Density

No data available

Relative Density	1.20-1.30 @ °C
Specific Gravity	No data available
Partition coefficient	Log Pow -0,81 - Bioaccumulation is not expected., (Lit.)
Explosive properties	No data available
Solubility	Soluble in water
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity	There are no known reactivity hazards associated with this product.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	No data available
Conditions to avoid	Avoid excessive heat for prolonged periods of time
Incompatible materials	Strong oxidising agents. Strong alkalis. Strong reducing agents.
Hazardous decomposition products	When heated, vapours/gases hazardous to health may be formed.

11. Toxicological information

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Acute toxicity	ATE oral (mg/kg) 2,550.0 Acute toxicity - inhalation ATE inhalation (dusts/mists mg/l) 6.25
Inhalation	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following Coughing.
Ingestion	May cause discomfort if swallowed.
Respiratory or skin sensitization	May cause sensitisation by skin contact. This product is strongly irritating. Prolonged contact may cause burns.
Serious eye damage	Causes serious eye irritation. May cause serious eye damage.
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

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Persistence and degradability	Not persistent Expected to degrade in the environment
Toxicity to fish	LC50, 96 hours: 1.0 mg/l, Onchorhynchus mykiss (Rainbow trout)
Toxicity to daphnia and other aquatic invertebrates	EC??, 48 hours: 1.24 mg/l, Daphnia magna LC??, : 354 mg/kg, Colinus Virginianus (Bobwhite Quail)
Toxicity	The product contains a substance which is harmful to aquatic organisms.
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Products Biodegradation	No data available
Mobility in soil	The product is soluble in water.
Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.
Endocrine disrupting properties	No data available
Other adverse effects	The product contains substances that may be harmful to aquatic life in high concentrations

13. Disposal considerations

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General information	Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Contaminated packaging	No data available
Disposal Method	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Dispose of waste via a licensed waste disposal contractor.

14. Transport information

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UN number	ADR/RID:1760 IMDG:1760 IATA:1760
UN proper shipping name	ADR/RID:CORROSIVE LIQUID, N.O.S. (Contains 2, 2-dibromo-3-nitropropionamide) IMDG:CORROSIVE LIQUID, N.O.S. (Contains 2, 2-dibromo-3-nitropropionamide) IATA:CORROSIVE LIQUID, N.O.S. (Contains 2, 2-dibromo-3-nitropropionamide)
Transport hazard class(es)	ADR/RID:8 IMDG:8 IATA:8
Packaging group	ADR/RID:III IMDG:III IATA:III
Environmental hazards	ADR/RID:No IMDG Marine pollutant:No IATA:No
Special precautions for user	Tunnel restriction code (E)
Further information	No data available

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Other regulations	Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	A Chemical Safety Assessment has been carried out for this substance.

16. Other information

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Other Information	<p>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 we 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.</p> <p>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only</p>
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for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

No data available