

1. Product and Company Identification

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Product Name BIOCIDE TREAT
Part Number RXSOL-43-2977-025

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / Information on ingredients

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Chemical Name	CAS No	Concentration
Sodium Chlorate	7775-09-9	>= 30 - < 60
Hydrogen Peroxide	7722-84-1	>= 5 - < 8

3. Hazards Identification

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Signal Word	Danger.
Hazard Statements	May intensify fire oxidiser Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Toxic to aquatic life.
Precautionary statements response	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion proof electrical, ventilating, lighting and all material handling equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash skin thoroughly after handling.

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.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or physician.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POSION CENTER or doctor/physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.

P403+P233 Store in a well ventilated place. Keep container tightly closed.

P403+P235 Store in a well ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

4. First Aid Measures

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General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

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Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	No data available.

Special hazards arising from the substance or mixture	No data available.
Further information	Use water spray to cool unopened containers
Hazardous combustion products	No data available.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Specific Hazards Arising from the Chemical	No data available.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. Handling and Storage

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Advice on safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measure to prevent the buildup of electrostatic charge.
Advice on protection against fire and explosion	No data available
Incompatible materials	No data available
Hygiene measures	No data available
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage conditions	Recommended storage temperature 2 - 8°C
Storage class	Storage class (TRGS 510): Flammable liquids
Specific end use(s)	Laboratory chemicals, Manufacture of substances

8. Exposure controls and personal protection

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Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Exposure control	Personal Protective Equipment.
Eye/face protection	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Body Protection	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Respiratory protection	Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under

Other Protection Measure	appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	No data available
Thermal hazards	Prevent further leakage of spillage if safe to do so. Do not let product enter drains.
	No data available

9. Physical and chemical properties

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Physical state	Liquid
Colour	Colourless
Odour	Slight , Pungent
Odor Threshold	Not Applicable
pH	2 - 6
Melting Point	No data available
Boiling Point	104.0 °C
Flash Point	Does not flash
Evaporation Rate	>1
Flammability (solid, gas)	Not flammable
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	6.7 kPa
Density	No data available
Vapour Density	No Data Available
Freezing point	No data available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	soluble
Relative density	1.34 - 1.39
Ignition temperature	No information available.
Particle characteristics	No data available
Viscosity	1.8mPa.s

10. Stability and reactivity

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Reactivity	No data available
Stability	Decomposes on heating
Possibility of hazardous reactions	No data available
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents, Strong acids
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions- Carbon oxides Other decomposition products- no data available

11. Toxicological information

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Potential health Effects	Eyes Skin: Causes serious eye damage. Ingestion: Health injuries are not known or expected under normal use.
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	Inhalation: May be harmful if swallowed.
	Chronic Exposure: May be harmful if inhaled. Health injuries are not known or expected under normal use.
Experience with human exposure	Eyecontact Skincontact Ingestion
	Eye contact: Redness, Pain, irritation
	Skin contact: No symptoms known or expected.
Acute oral toxicity	Ingestion: No information available.
Acute inhalation toxicity	Inhalation: No symptoms know more expected Acute toxicity estimate: 3.531 mg/kg Acute toxicity estimate: 8.4/mg Exposure time: 4 h
Acute dermal toxicity	Test atmosphere: dust mist no
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available Result: Irreversible effects on the eye Method: Expert judgement
Specific target organ toxicity - single exposure	no data available The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Respiratory or skin sensitization	No data available
Carcinogenicity	No data available
Reproductive effects	No data available
Germ cell mutagenicity	No data available
Teratogenicity	No data available
STOT - single exposure	No data available
STOT-repeated exposure	No data available
Aspiration toxicity	No data available

12. Ecological information

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Persistence and degradability	No data available
Persistence and degradability	Result: Not applicable - inorganic
	Greater than 95% of this product consists of Inorganic substances for which a degradation value is not applicable.
Mobility	The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program Interface) Suite TM, provided by the USEPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information is intended to give the user a general estimate of the environmental fate of this product under the condition of the models.
Bioaccumulative potential	This preparation or material is not expected to bioaccumulate
Other information	No data available

13. Disposal considerations

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Disposal method	Do not contaminate storm water drains, natural waterways or soil with chemical or used container. Where possible recycling is preferred to
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Disposal considerations

disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of as hazardous waste in compliance with local and national regulations.

Dispose of a unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

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UN number	UN 2428
UN proper shipping name	Sodium chlorate Aqueous Solution
Transport hazard class(es)	5.1
Packaging group	II
Environmental hazards	No
Special precautions for user	No data available
Further information	No data available

15. Regulatory information

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Safety, health and environmental regulations specific for the product in question	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations	No data available
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out.

16. Other information

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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 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.