

1. Product and Company Identification

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Product Name : **RXSOL-31-3025-005**
Product Type : **SODIUM HYPO CHLORITE , conc. active CHLORINE, BLEACH**

Material Identity

Product Name: SODIUM HYPOCHLORITE

General or Generic ID: SALTS

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemica Name	CAS #	% BY WEIGHT
WATER	7732-18-5	85.0- 88.0
SODIUM HYPOCHLORITE	7681-52-9	12.0- 15.0

3. Hazards Identification

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Eye	Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.
Skin	Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage. Additional symptoms of skin damage may include: skin blistering, hair loss, Passage of this material into the bloodstream through the skin is possible, but it is unlikely that this would cause harmful effects during safe handling and use.
Swallowing	Swallowing this material may be harmful or fatal. Symptoms may include stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destruction of the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.
Inhalation	It is possible to breathe this material under certain conditions of handling (for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burning of the nose, throat, and respiratory tract.
Symptoms of Exposure	Signs and symptoms of exposure to this material through breathing, skin contact, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) cough, tight feeling in the chest, difficulty breathing, lung edema (fluid buildup in the lung tissue), lung damage, shock, and death.

Target Organ Effects	This material (or a component) has been shown to lower activity of certain immune system cells in experimental animals. The significance of this effect with respect to human health is uncertain.
Developmental Information	There are no data available for assessing risk to the fetus from maternal exposure to this material.
Cancer Information	Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.
Other Health Effects	When combined with an acid or ammonia, sodium hypochlorite may produce chlorine or chloramine gas, respectively. Inhalation of these gases results in coughing, choking, difficult breathing, and other symptoms of respiratory tract irritation. Fluid may collect in the lung tissue following a severe gas exposure.
Primary Route(s) of Entry	Inhalation, Skin contact, Eye contact.

4. First Aid Measures

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Eyes	If material gets into the eyes, immediately flush eyes gently with water for 15 minutes while holding eyelids apart. If symptoms develop as a result of exposure, immediately move individual away from exposure and begin flushing as recommended above. Seek immediate medical attention.
Skin	Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.
Swallowing	Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If person is not breathing, begin artificial respiration. Do not leave individual unattended.
Inhalation	If symptoms develop, immediately move individual away from exposure to fresh air. Seek immediate medical attention; keep person warm and comfortable. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.
Note to Physicians	Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), and immune system.

5. Fire-fighting Measures

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Flash Point	Not applicable
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Explosive Limit

Not applicable

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: chlorine

Fire and Explosion Hazards

No special fire hazards are known to be associated with this product.

Extinguishing Media

Use an extinguishing media appropriate for surrounding fire..

Fire Fighting Instructions

Water may be used to keep fire-exposed containers cool until fire is extinguished. Fire fighters should wear a self-contained breathing apparatus with a full facepiece operated in pressure demand mode with appropriate turn-out gear and chemical protective clothing. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 3, Flammability - 0, Reactivity - 1

6. Accidental Release Measures

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Small Spill

Dilute with water and absorb onto a noncombustible absorbent material.

Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Collect and add to a container. Add large volume of water. Persons not wearing protective equipment should be excluded from area of spill until clean-up is completed. Stop spill at source. Dike to prevent spreading. Pump to salvage tank.

7. Handling and Storage

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Handling

Containers of this material may be hazardous when emptied. Since all containers retain product residues (vapor, liquid, and/or solid), all hazardousness given in the data sheet must be observed. Emergency eyewash fountain and showers should be available in the immediate vicinity of potential exposure.

8. Exposure controls and personal protection

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Eye Protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of eye protection (e.g., safety glasses). (Consult your industrial hygienist.)

Skin Protection

Wear impervious gloves (consult your safety equipment supplier). To prevent contact, wear impervious clothing and boots..

Respiratory Protections

If overexposure has been determined or documented, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirator specified conditions. (See your safety equipment supplier.) Engineering administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to keep exposure below level of overexposure (from known, suspected or apparent effects).

Exposure Guidelines

Component

WATER (7732-18-5)

No exposure limits established

SODIUM HYPOCHLORITE (7681-52-9)

No exposure limits established

9. Physical and chemical properties

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Boiling Point	(for component) 212.0 F (100.0 C)
Vapor Pressure	(for component) 17.500 mmHg
Specific Vapor Density	No data
Specific Gravity	1.220 - 1.250 @ 68.00 F
Liquid Density	10.400 lbs/gal @ 68.00 F 1.250 kg/l @ 20.00 C
Percent Volatiles	87.5%
Evaporation Rate	SLOWER THAN ETHYL ETHER
Appearance	No data
State	LIQUID
Physical Form	HOMOGENEOUS SOLUTION
Color	CLEAR TO YELLOW LIQUID
Odor	CHLORINATED BLEACH ODOR
pH	13.5
Solubility in Water	SOLUBLE

10. Stability and reactivity

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Hazardous Polymerization

Product will not undergo hazardous polymerization.

11. Toxicological information

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No data

12. Ecological information

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No data

13. Disposal considerations

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14. Transport informationwww.rxmarine.com

DOT Information	- 49 CFR 172.101
DOT Description:	HYPOCHLORITE SOLUTION
Container/Mode:	55 GAL DRUM/TRUCK
NOS Component:	Not applicable
RQ (Reportable Quantity)	- 49 CFR 172.101
Product Quantity (lbs)	Component

15. Regulatory informationwww.rxmarine.com

NA

16. Other informationwww.rxmarine.com

Text of R and S phrase codes used in this safety data sheet:- R34: Causes burns; R36: Irritating to eyes; R37: Irritating to respiratory system; R41: Risk of serious damage to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

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