Material Safety Data Sheet

Sodium Hypo Chlorite 10-12.5% (RXSOL-16-3031-020)

1. Product and Company Identifaction

Product Name	:	**RXSOL-31-3031-020**
Product Type	:	**SODIUM HYPO CHLORITE**

Company Details:

RX MARINE INTERNATIONAL
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VASHI ,NEW BOMBAY 400703 INDIA

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2. Composition / informationon ingredients

Chemical Name	CAS #	% BY WEIGHT
WATER	7732-18-5	87.50- 90.00
SODIUM HYPOCHLORITE	7681-52-9	10.00- 12.50

3. Hazards Identification

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 contact may include: skin blistering,hair loss, Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.
Swallowing	Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood.Swallowing this material may cause burns and destroy tissue in 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 and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal.Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.

Symptoms of Exposure	Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) cough, tight feeling in the chest, difficult breathing, lung edema (fluid buildup in the lung tissue), lung damage, shock, coma, 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

Eyes	If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before 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 possible, do not leave individual unattended.
Inhalation	If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. 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), immune system.

5. Fire-fighting Measures

Flash Point	Not applicable
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 out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.
NFPA Rating	Health - 3, Flammability - 0, Reactivity - 1

6. Accidental Release Measures

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 slowly to 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

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

8. Exposure controls and personal protection

Eye Protection	Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)
Skin Protection	Wear impervious gloves (consult your safety equipment supplier).To prevent skin contact, wear impervious clothing and boots..
Respiratory Protections	If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.
Engineering Controls	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse 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

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

Hazardous Polymerization	Product will not undergo hazardous polymerization.

11. Toxicological information

No data

12. Ecological information

No data

13. Disposal considerations

Waste Management Information	Dispose of in accordance with all applicable local, state and federal regulations.

14. Transport information

DOT Information	- 49 CFR 172.101
DOT Description:	HYPOCHLORITE SOLUTIONS,8,UN1791,III
Container/Mode:	55 GAL DRUM/TRUCK PACKAGE
NOS Component:	Not applicable
RQ (Reportable Quantity)	- 49 CFR 172.101
Product Quantity (lbs)	Component

15. Regulatory information

-------\Chemical Inventory Status - Part 1\---------- Ingredient TSCA EC Japan Australia ---------- ---- --- ----- --------- Sodium Hypochlorite (as NaOCl) (7681-52-9) Yes Yes Yes Yes Water (7732-18-5) Yes Yes Yes Yes

--------\Chemical Inventory Status - Part 2\---------- --Canada-- Ingredient Korea DSL NDSL Phil. ---------- ----- --- ---- ----- Sodium Hypochlorite (as NaOCl) (7681-52-9) Yes Yes No Yes Water (7732-18-5) Yes Yes No Yes

--------\Federal, State & International Regulations - Part 1\---------- -SARA 302- ------SARA 313------ Ingredient RQ TPQ List Chemical Catg. ---------- --- ----- ---- ---------- Sodium Hypochlorite (as NaOCl) (7681-52-9) No No No No Water (7732-18-5) No No No No

--------\Federal, State & International Regulations - Part 2\---------- -RCRA- -TSCA- Ingredient CERCLA 261.33 8(d) ---------- ------ ------ ------ Sodium Hypochlorite (as NaOCl) (7681-52-9) 100 No No Water (7732-18-5) No No No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity: No (Mixture / Liquid)

Australian Hazchem Code: None allocated.
Poison Schedule: S5
WHMIS:
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR

16. Other information

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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 for this product. If the product is used as a component in another product, this MSDS information may not be applicable.