

Product Name	Sodium Hypo Chlorite
Part Number	RXSOL-31-3025-035

Company Details:

RX MARINE INTERNATIONAL  
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Chemical Name	Cas No	EC No	Weight	Formula	
Sodium hypochlorite solution	7681-52-9	231-668-3	74,44 g/mol	NaClO	Signal Word
Danger	Hazard Statements	No Data available	H290	May be corrosive to metals	H314
Causes severe skin burns and eye damage		H440	Very toxic to aquatic life with long lasting effects.		
Precautionary statement(s)		P234	Keep only in original packaging	P273	Avoid release to the environment.
P280		Wear protective gloves/ protective clothing/ eye protection/ face protection			P303 + P361 + P353
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water				P304 + P340 + P310	IF
INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor					P305 + P351 + P338
.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing					
Supplemental Hazard information (EU)		Contact with acids liberates toxic gas.			

General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.				If
inhaled	After inhalation: fresh air. Call in physician	Swallowed	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.		
	Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.			
	Eye contac	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.			
	Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.			
				Most important symptoms and effects, both acute and delaye	
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11				Indication of any	
immediate medical attention and special treatment needed				No data available	

Flammability	May be combustible at high temperature.	Suitable extinguishing media	Use
extinguishing measures that are appropriate to local circumstances and the surrounding environment.		Unsuitable extinguishing media	
For this substance/mixture no limitations of extinguishing agents are given.		Special hazards arising from the substance or mixture	
Hydrogen chloride gas Sodium oxides Not combustible. Ambient fire may liberate hazardous vapours..		Further information	Suppress
(knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water			

system.	Hazardous combustion							
products	No data available	Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.					
Hazards Arising from the Chemical		No data available	Protective Equipment	No data available	Specific			
Personal precautions, protective equipment and emergency procedures			Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8					
Personal Protection			Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.					
Enviromental Precaution		Do not let product enter drains.	Methods and materials for					
containment and cleaning		Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.	Reference to other sections	For disposal see				
section 13.								
Advice on safe handling		For precautions see section 2.2.	Incompatible materials	Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills.				
Hygiene measures		Immediately						
change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.								
Advice on safe handling		No data available	Conditions for safe storage, including any incompatibilities	Storage conditions				
No metal containers. Tightly closed. Do not store near acids. Storage stability		Recommended storage temperature	Storage conditions	No				
data available		Storage class	Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials	Specific end				
use(s)		Apart from the uses mentioned in section 1.2 no other specific uses are stipulated		Advice on general occupational hygiene				
No data available								
Exposure controls		Ingredients with workplace control parameters.		Engineering Control	Personal protective equipmen			
Eye/face protection		Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles						
Body Protection		Protective clothing.	Skin protection	Full contact Material: Nitrile				
rubber Minimum layer thickness: 0,11 mm		Break through time: 480 min	Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)		Splash			
contact Material: Nitrile rubber		Minimum layer thickness: 0,11 mm	Respiratory protection	Required when vapours/aerosols are				
generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.								
Other Protection Measure		Handle in accordance with good industrial hygiene and safety practice.						
Control of environmental exposure		Do not let product enter drains.						
Physical state		liquid	Colour	No data available	Odour	No data available	Odor Threshold	Not
Applicable	pH	5,5 - 6,5 at 50 g/l at 20 °C	Melting Point	-28,9 °C	Boiling Point	Not applicable		
Flash Point	No data available	Evaporation Rate	Not Applicable		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		Viscosity, kinematic: No data available						
Viscosity, dynamic: No data available		Density	No data available		Relative Density	No data available		Specific
Gravity	No data available	Partition coefficient	No data available		Explosive properties	No data available		
Solubility	No data available	Ignition temperature	No information available.		Particle characteristics	No data available		

Reactivity (room temperature)	No data available Possibility of hazardous reactions The generally known reaction partners of water.	Chemical stability Violent reactions possible with: Conditions to avoid	The product is chemically stable under standard ambient conditions Generates dangerous gases or fumes in contact no information available
Incompatible materials	Strong acids, Organic materials, Powdered metals, Forms shock-sensitive mixtures with certain other materials., Amines, Reacts violently with ammonium salts, aziridine, methanol, and phenylaceto primary aliphatic or aromatic amines to form explosively unstable n-chlor 55°C.	Hazardous decomposition products	In the event of fire: see section 5

Acute toxicity	Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.				
Skin corrosion/irritation	Mixture causes burns.	Serious eye damage/irritation	Mixture causes serious eye damage. Risk of blindness!		
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
Additional Information					
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis. Handle in accordance with good industrial hygiene and safety practice.					

Persistence and degradability	The methods for determining biodegradability are not applicable to inorganic substances					Toxicity
LC50 - Oncorhynchus mykiss (rainbow trout) - 0,107 mg/l - 96 h	Remarks: (ECHA)					Toxicity to daphnia and other aquatic
invertebrates	No data available	Toxicity	No data available	Toxicity to bacteria	No data available	Toxicity to
algae	No data available)	Products Biodegradation	No data available	Mobility in soil	No data available	Results
of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.					Endocrine disrupting properties
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.						
Other adverse effects	No data available					

#### Waste treatment methods

No data available

UN number	ADR/RID:1791	IMDG:1791	IATA:1791	UN proper shipping name	
ADR/RID:HYPOCHLORITE SOLUTION	IMDG:HYPOCHLORITE SOLUTION(sodium hypochlorite solution)			IATA:HYPOCHLORITE	
SOLUTION	Transport hazard class(es)	ADR/RID: 8	IMDG: 8	IATA:8	Packaging group
ADR/RID:III	IMDG:III	IATA:III	Environmental hazards	ADR/RID:Yes	IMDG: No Marine
pollutant: Yes	IATA: No	Special precautions for user	Tunnel restriction code : (E)	Further information	No data available

Safety, health and environmental regulations/legislation specific for the substance or mixture      This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.      Other regulations      Take note of Dir 94/33/EC on the protection of young people at work.      Chemical Safety Assessment      For this product a chemical safety assessment was not carried out

#### Other Information

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