

Product Name	Sodium Hypo Chlorite 12
Part Number	RXSOL-40-3025-125

Company Details:

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Chemical Name	Cas No	EC No	Molecular weight	Formula
Sodium hypochlorite solution	7681-52-9	231-668-3	74,44 g/mol	ClNaO
Danger	Hazard Statements	H318 Causes serious eye damage.	Precautionary statements	P305 + P351 + P338 IF IN
EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Classification of			
the substance or mixture	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.			Supplemental Hazard
Statements	None	Other hazards	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.	

General advice	Show this material safety data sheet to the doctor in attendance.	If inhaled	After inhalation: fresh air. Call in physician.
Eye Contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses		
Swallowed	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.		
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.		
Inhalation	Remove patient to fresh air, keep warm and at rest and get medical assistance in necessary.		
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.		
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11		Most important symptoms and effects, both acute and delaye	
immediate medical attention and special treatment needed		Indication of any	
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	
Chlorine Hydrogen chloride gas Sodium oxides 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 Fire may cause the evolution of Sulphur oxides, nitrogen oxides. 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. Protective Equipment Use personal protective equipment. Specific Hazards Arising from the Chemical Has a fire-promoting effect due to the release of oxygen.

Ambient fire may liberate hazardous vapours.

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. Spillage Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal. 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. Environmental 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 protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition.

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 Work under hood. Do not inhale substance/mixture. Conditions for safe storage, including any incompatibilities Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Moisture sensitive. Storage conditions Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Separately or together with other oxidising substances only and away from sources of ignition and heat. Because of their oxidation potential these products can raise the burning rate of combustible substances substantially or ignite combustible substances on contact with them. Storage class Storage class (TRGS 510): 5.1A: Strongly oxidizing 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 Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.

Exposure controls No specific additional engineering controls are required. Provide good natural or artificial ventilation.

Engineering Control Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Body Protection protective clothing Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Respiratory protection Recommended Filter type: Filter B-(P3) 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 Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Physical state	liquid	Colour	No data available	Odour	No data available	Odor Threshold	Not
Applicable	pH	No data available	Melting Point	No data available	Boiling Point	No data available	
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	23,3 hPa at 20 °C
	Viscosity	No data available	Density	1,097 g/mL at 25 °C
No data available	Specific Gravity	No data available	Partition coefficient	No data available
No data available	Solubility	20 °C soluble	Ignition temperature	No information available.
characteristics	No data available			Particle

Reactivity	No data available	Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	Risk of explosion with: ammonium compounds arsenic bromates organic combustible substances phosphorus Powdered metals Sulfides sulfur carbon Risk of ignition or formation of inflammable gases or vapours with: semimetals nonmetals nonmetallic halides Reducing agents Exothermic reaction with: selenium Generates dangerous gases or fumes in contact with: acids Violent reactions possible with: sulfuric acid Cyanides	Conditions to avoid	No information available
Incompatible materials	No information available	Hazardous decomposition products	In the event of fire: see section 5

Acute toxicity	Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Symptoms: Possible symptoms:, mucosal irritations Dermal: No data available	Skin corrosion/irritation	Remarks: Mixture causes skin irritation.
Serious eye damage/irritation	Remarks: Mixture causes serious eye damage.	Respiratory or skin sensitization	
Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)	Carcinogenicity	Presumed to have carcinogenic potential for humans	
Germ cell mutagenicity	Test Type: Ames test Test system: Salmonella typhimurium	Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: Positive results were obtained in some in vitro tests.	
Reproductive toxicity	No data available	Specific target organ toxicity - single exposure	No data available
Additional Information	RTECS: UF9625000 Lung irritation, Cyanosis, Central nervous system depression	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	

Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances		
Toxicity to fish	Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 75 mg/l - 96 h (OECD Test Guideline 203)	Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity	Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520 mg/l - 96 h	Toxicity to bacteria	EC10 - Bacteria - 14 mg/l - 72 h
Remarks: (Lit.) EC5 - E.coli - 15.000 mg/l	Remarks: (Lit.) (maximum permissible toxic concentration)	Toxicity to algae	
Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)	static test NOEC - Desmodesmus subspicatus (green algae) - 31,6 mg/l - 72 h (OECD Test Guideline 201)	Products Biodegradation	The methods for determining the biological degradability are not applicable to inorganic substances.
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.	Mobility in soil	No data available
Other adverse effects	No data available .	Endocrine disrupting properties	No data available

Waste treatment Method	No data available
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UN number	ADR/RID:3082	IMDG:3082	IATA: 3082	UN
proper shipping name	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (sodium hypochlorite solution)	IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (sodium hypochlorite solution)	IATA:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (sodium hypochlorite solution)	
	Transport hazard class(es)	ADR/RID: 9		

IMDG: 9	IATA:9	Packaging group	ADR/RID: II	IMDG: II	IATA:II
Environmental hazards	ADR/RID: Yes		IMDG: Yes	IATA: Yes	Special precautions for
user	Tunnel restriction code : (-)	Further information	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.		

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 Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. 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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