

MATERIAL SAFETY DATA SHEET

SODIUM CHLORITE 25% SOLUTION

SECTION 1		IDENTIFICATION	
Trade Marks and Synonyms (if any) Chlorous Acid, sodium salt		Chemical Names: Sodium Chlorite	
Physical Form: Yellowish Clear liquid		Molecular Formula NaClO ₂	
Supplier: SPE Chemicals Co.,Ltd		Emergency Telephone :0086 21 68735647	

SECTION 2		INFORMATION ON INGREDIENTS	
Ingredients		Classification	CAS No.
Sodium Chlorite	25%	8,	7758-19-2
Water	75%		

SECTION 3	HAZARDS IDENTIFICATION
Risk of damage to eyes and skin. Harmful if swallowed. Oxidising agent.	
Occupational Exposure Limit (OEL):Not Specified.	

SECTION 4 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour : Liquid with slight yellow color.			
pH 13.0			
Boiling Point Not specified	Melting Point N/A	Decomposition Temp >170°C	Specific Gravity 1.31
Auto ignition N/A	Flammable Limit (% by Vol. in Air) N/A	Vapor Pressure (mm Hg) N/A	
Solubility in Water Entirely miscible	Solubility in Other Solvents Not specified	Oxidising Properties An oxidising agent	

SECTION 5 STABILITY AND REACTIVITY			
Stability	Unstable		Conditions to Avoid Avoid temperatures above 50°C.
	Stable	X	
Incompatibility (Materials and Conditions to Avoid) Avoid contact with combustible materials, acids, organic materials and reducing agents.			
Hazardous Decomposition Products Thermal decomposition expected to produce chlorine dioxide, chlorates.			

SECTION 6 TOXICITY DATA

Short term effects of over exposure when :

In contact with skin : Slightly irritating in contact with skin

In contact with eyes : Liquid causes severe damage, even on short duration. Vapour causes irritation.

Inhaled : Severe irritant to respiratory system and signs of haemolysis from 0.1 mg/l as NaClO₂

Ingested : Harmful if swallowed.

LD50/oral/rat 284mg/Kg as NaClO₂ Long Term

Exposure : Not genotoxic, absence of toxic effects on fertility, foetal development.

SECTION 7 FIRST AID MEASURES

Skin Contact : Remove contaminated clothing and wash affected area with copious quantities of water.

Eye Contact : Immediately irrigate with water holding eye open if necessary. Seek medical attention.

Inhalation : Remove patient to fresh air. Keep patient warm and at rest. Apply oxygen or artificial respiration if needed.

Do not induce vomiting. Give copious quantities of water to drink.

Ingestion : Get medical assistance.

Further Medical Advice : Harmful by ingestion, inhalation skin and eye contact. Local corrosive effects predominate. No known systemic effects. No specific antidotal treatment, symptomatic support required. No known delayed effects apart from consequence of local tissue damage.

SECTION 8 FIRE AND EXPLOSIVE HAZARD DATA

Would any material saturated with this product be subject to spontaneous combustion ?	YES		Materials :
	NO	X	

Fire Extinguishing Data Non flammable. Keep containers cool with water spray. Use waterspray, CO₂, Foam Dry powder.

Fire Fighting Protective Equipment Wear a breathing apparatus and full protective clothing.

Unusual Fire and Explosive Hazards Contact with acids liberates very toxic gas. Temperatures above 150°C.

SECTION 9 PERSONAL PROTECTION

General Precautions : Eye and skin protection should be used when handling Sodium Chlorite. Provide showers and eye baths where exposure may occur.

Ventilation Requirements : Provide adequate ventilation. Short term exposure (15 mins) = 0.84mg/m³

Respiratory Protection : Wear respirator, filter code B colour grey.

Protective Clothing Gloves and acid resistant footwear are essential. PVC or PE only not rubber.

Eye protection : Goggles or full face mask.

SECTION 10 HANDLING AND STORAGE

Handling : Avoid contact with skin and eyes. Avoid inhalation. Keep away from Acids and organic ammonium and ammonia compounds. Store away from reactive chemicals and combustible materials

Storage : Store in polyethylene, protected glass, HDPE, PVC, or PVC lined GRP polypropylene (non - transparent) tanks away from direct sunlight and protected against the cold.

SECTION 11 SPILLAGE/ACCIDENTAL RELEASE

Small Spillage : Wash away with large quantities of water.

Large Spillage : Contain by absorption with sand and dispose of in accordance with local regulations. Inform the police and local authority immediately if the product has entered public drains.

Personal Precautions : Wear full protective clothing including breathing apparatus.

Neutralising Chemicals : Not specified.

SECTION 12 WASTE DISPOSAL

Absorb with sand or earth and landfill in accordance with local regulations.

SECTION 13 ENVIRONMENTAL INFORMATION

Environmental Fate and Distribution: High tonnage material produced in wholly contained systems. The substance is soluble in water.

Persistence and Degradation: Decomposes slowly on standing with the evolution of some oxygen.

Effect on Effluent Treatment: This product will injure treatment organisms. The product is an oxidising agent.

Toxicity Ecotoxicity : 1ppm available chlorine is toxic to all fish. Large discharges may contribute to the alkalinity of water and soil and will injure aquatic life and soil micro - organisms.

SECTION 14 REGULATORY INFORMATION

EEC Classification :

Hazard Symbol :

Risk Phrases : Contact with acids liberates very toxic gas. (R32) Harmful if swallowed. (R22) Risk of serious damage to eyes. (R41)

Safety Phrases : Keep away from acids (S14.1) Keep container tightly closed (S7) Keep in a cool place. (S3) Keep away from combustible material. (S17) Wear suitable protective clothing, gloves, eyes and face protection (S36/37/39)

SECTION 15 TRANSPORT INFORMATION

UN No. 1908	UN Pack. Group	ICAO/IATA Class 8, II
IMDG Class 8, II	ADR/RID Class 8 , II	ADR/RID Item 61. b

SECTION 16 OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.