

Material Safety Data Sheet for Sodium Thiosulfate

Part 1 Chemical Name

Chinese name of the chemical: Sodium thiosulfate

Common name of the chemical: Sodium hyposulfite

English Name: sodium

Technical data sheet code: 106516 CAS No:

Company: Hainan Hua Yangshun Import and Export Co,Ltd.

Address: Longqiao town, Longhua district, Haikou, Hainan, China.

Phone: +86 18754130113

Part 2 Composition/Information on Ingredients

Ingredients Sodium thiosulfate content 99.999%

CAS No: 7772-98-7

Part 3 Hazards Identification

Hazard Category:

Invasion route: inhalation, skin contact, eye contact, ingestion

Environmental hazard: slight water pollutant

Explosion hazard: non-combustible material

Part 4 First Aid Measures

Skin contact: 1. Rinse with plenty of water for at least 20 minutes.

2. Remove contaminated clothing immediately

Eye contact: 1. Hold the upper and lower eyelids open and rinse with water for 20 minutes. 2. Notify an ophthalmologist and seek medical attention immediately.

Inhalation: Move the patient to fresh air.

Ingestion: Seek medical attention immediately.

Part 5 Firefighting Measures

Hazardous Characteristics: Non-combustible material

Harmful combustion products: No data Nitrogen

Fire extinguishing method: Fire extinguisher

Part 6 Leakage Emergency Treatment

Emergency Treatment: 1. Before the contaminated area is completely cleaned, restrict personnel from entering the contaminated area.

Part 7 Operation and Storage

Operation Precautions: No special requirements

Storage Precautions: Store in a closed container

Part 8 Contact Control/Personal Protection

Engineering control:	Closed operation, provide adequate local exhaust. Provide safe showers and eyewash equipment.
Respiratory protection:	When the dust concentration in the air is too high, it is recommended to wear a filter-type dust respirator.
Eye protection:	Wear chemical safety goggles
Body protection:	Protective clothing should be selected according to the concentration of harmful substances in the environment
Hand protection:	Wear chemical protective gloves
Other protection:	Take off contaminated clothing as soon as possible after work

Part 9 Physical and Chemical Properties

Appearance and properties:	transparent monoclinic crystals.		
pH:	6.0—7.5 (25℃)		
Melting point (℃):	40~45	Relative density (water = 1):	1.729(11℃)
Boiling point (℃):	100	Relative vapor density(air = 1):	1.01g/mL at 25°C
Molecular formula:	Na ₂ S ₂ O ₃ ·5H ₂ O	Molecular weight:	248.18
Main			

Ingredients:			
Saturated vapor pressure (kPa):	No data	Heat of combustion(kJ/mol):	No data
Critical temperature (°C):	No data	Critical pressure(MPa):	No data
Logarithm of octanol/water partition coefficient:			
Flash point (°C):	No data	Upper Explosion limit%(V/V):	No data
Ignition temperature (°C):	No data	lower Explosion limit%(V/V):	No data
Solubility:	Soluble in water and turpentine, hardly soluble in ethanol.		
Main application:	It has a reducing effect. It is used as a photographic fixer, dechlorinating agent and analytical reagent, and is used in leather tanning and extracting silver from ores. It also has an anti-allergic effect. It is clinically used for skin pruritus, chronic urticaria, drug eruption, cyanide and arsenic poisoning, etc.		
Other physical and chemical properties:			

Section 10. Stability and reactivity

Stability:	Stable
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Incompatible materials:	Nitrogen, peroxide, acid
Conditions to avoid contact:	Reactive with nitrite and peroxide (explosion hazard)
Polymerization hazard:	Does not occur
Decomposition products:	Sulfur oxides

Part 11 Toxicological Information

Acute toxicity:	Most of the ecological impact data for this substance are not available.
Carcinogenicity:	

Part 12 Ecological Information

Ecotoxicological toxicity:	Most of the ecological impact data for this substance are not available.
Biodegradability:	No data
Non-biodegradability:	No data
Other harmful effects:	COD:0.322g/g

Part 13 Disposal

Waste nature:	Hazardous waste
Waste disposal method:	Entrust the disposal to a nationally approved waste company
Waste precautions:	Disposal in accordance with current regulations

Part 14 Transport Information

Dangerous goods number:	024
Packing method:	Double layer packaging

Part 15 Regulatory Information

The 《Regulations on the Safety Management of Hazardous Chemicals》 (issued by the State Council on March 2, 2011) has made corresponding provisions for the safe production, use, storage, transportation, loading and unloading of hazardous chemicals.

Part 16 Other information

It weathers in dry air above 33°C, decomposes at 48°C, and decomposes into sodium sulfide and sodium sulfate when burned. The density of the anhydrous substance is 1.667. The aqueous solution reacts weakly alkaline. It decomposes in strong acid and precipitates sulfur and sulfur dioxide.