

MSDS FOR SODIUM THIOSULFATE

Section 1-Chemical Product

MSDS Name:Sodium Thiosulfate Pentahydrate

Synonym:Sodium Hyposulfite;Disodium Salt Pentahydrate;Thiosulfate Pentahydrate.

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ORIGIN:CHINA

Section 2-COMPOSITION,INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Content	EINECS#
10102-17-7	Sodium Thiosulfate,Pentahydrate	99	Unlisted

Hazard Symbols:None listed.

Risk Phrases:None listed.

Section 3-HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Hygroscopic(absorbs moisture from the air).The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye:

May cause eye irritation

Skin:

Prolonged and/or repeated contact may cause irritation and /or dermatitis.

Ingestion:

Ingestion of large amounts may cause gastrointestinal irritation.

The toxicological properties of this substance have not been fully investigated.

Inhalation:

May cause respiratory tract irritation.Low hazard for usual industrial handling.The toxicological properties of this substance have not been fully investigated.

Chronic:

No information found.

Section 4-FIRST AID MEASURES

Eye:Flush eyes with plenty of water for at least 15 minutes,occasionally lifting the upper and lower eyelids.Get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do not induce Vomiting. If conscious and alert, rinse mouth and drink 2-4 cups of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5-FIRE FIGHTING MEASURES

General information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

Extinguishing Media:

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 6-ACCIDENTAL RELEASE MEASURES

General information: Use proper personal protective equipment as indicated in Section 8.

Spills/leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up immediately, observing proper ventilation.

Section 7-HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Use with adequate ventilation.

Minimize dust generation and accumulation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances, keep away from strong acids. Store protected from moisture.

Section 8-EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls:

Facilitated storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

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Exposure limited CAS# 10102-17-7; Personal protective equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9-PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Color: Colorless to white

Odor: Odorless

PH: Not available.

Vapor Pressure: Not available

Viscosity: Not available

Freezing/Melting Point: 48.5 deg C

Autoignition Temperature: Not applicable

Flash point: Not applicable

Explosion limits, lower: Not available.

Explosion limits, upper: Not available.

Decomposition Temperature: >45 deg C

Solubility in water: 680 G/L WATER (20 C)

Specific Gravity/Density: 1.7290 g/cm³

Molecular Formula: Na2O3S2.5H2O

Molecular weight: 248.18

Section 10-STABILITY AND REACTIVITY

Chemical Stability:

Stable.

Conditions to Avoid:

Incompatible materials, acids, strong oxidants, exposure to moist air or water.

Incompatibilities with other materials.

Moisture, strong acids, strong bases, strong oxidizing agents.

Hazardous Decomposition products:

Irritating and toxic fumes and gases, hydrogen sulfide, sodium oxide,

Hazardous polymerization: Has not been reported.

Section 11-TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 10102-17-7:WE6660000 LD50/LC50:

Not available.

Carvinogenicity:

Sodium thiosulfate, pentahydrate-not listed by ACGIH, IARC, or NTP

Other:

See actual entry in RTECS for complete information.

Section 12-ECOLOGICAL INFORMATION

Section 13-DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14-TRANSPORT INFORMATION

IATA

Not regulated as a hazardous material.

IMO.

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

Section 15-REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives.

Hazard symbols: Not available.

Risk Phrases:

Safety Phrases:

S 28A After contact with skin, wash immediately with plenty of water.

S37 wear suitable gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water danger/protection)

CAS#10102-17-7:0

Canada

CAS#10102-17-7 is listed on Canada's DSL List.

US FEDERAL

TSCA

CAS#10102-17-7 is not on the TSCA Inventory because it is a hydrate.

It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(U)(2)).