MATERIAL SAFETY DATA SHEET

SODIUM THIOSULPHATE (PENTAHYDRATE)

SECTION 1: PRODUCT IDENTIFICATION

Synonyms	**Sodium Thiosulphate (Pentahydrate)**
CAS No.	10102-17-7
Molecular Weight	248.19
Chemical Formula	Na2S2O3.5H2O
Supplier	Cosmo Chemistry India Pvt. Ltd.
Address	Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka, Varachha Main Road, Surat, Gujarat, India - 395006
Email	info@cosmochemistryindia.com
Mobile No.	+91 9797977958

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	**CAS No.**	**Percent**
Sodium Thiosulphate	10102-17-7	100%

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! May be harmful if swallowed or inhaled. May cause irritation to skin, eyes, and respiratory tract.

Potential Health Effects

Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Ingestion: Low level of toxicity by ingestion. Diarrhea may occur upon ingestion of large quantities.

Skin Contact: Irritation may occur from prolonged skin contact.

Eye Contact: Contact may cause mechanical irritation.

Chronic Exposure: Chronic exposure may cause skin effects.

Aggravation of Pre-existing Conditions: No information found.

SECTION 4: FIRST AID MEASURES

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

SECTION 5: FIRE FIGHTING MEASURES

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing the surrounding fire.

Special Information: Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

SECTION 7: HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Limits: None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. Warning: air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Safety glasses. Maintain eye wash fountain and quick-drench facilities in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Value
Appearance	Monoclinic, colorless crystals
Odour	Odourless
Solubility	50 g/100 g cold water
Density	1.69
Boiling Point	Not applicable
Melting Point	> 100°C (> 212°F)
Vapour Density (Air=1)	No information found
Vapour Pressure (mm Hg)	No information found
Evaporation Rate (BuAc=1)	No information found

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Burning may produce sulfur oxides.

Hazardous Polymerization: Will not occur.

Incompatibilities: Metal nitrates, sodium nitrite, iodine, acids, lead, mercury, and silver salts.

Conditions to Avoid: Incompatible materials listed above.

SECTION 11: TOXICOLOGICAL INFORMATION

Test	Result
Intraperitoneal - Mouse LD50	5600 mg/kg
Intravenous - Mouse LD50	2350 mg/kg
Intravenous - Dog, Adult LDLo	3000 mg/kg
Intravenous - Rat LD50	> 2500 mg/kg

Ingredient	Known Carcinogen	Anticipated Carcinogen	IARC Category
Sodium Thiosulphate (10102-17-7)	No	No	None

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate: No information found.

Environmental Toxicity: No information found.

SECTION 13: DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with applicable federal, state and local requirements.

SECTION 14: TRANSPORT INFORMATION

Not regulated.

SECTION 15: REGULATORY INFORMATION

As per local government rules and regulations.

SECTION 16: OTHER INFORMATION

NFPA Ratings: Health: 1, Flammability: 0, Reactivity: 0.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

Further Information:

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