

# Material Safety Data Sheet / Safety Data sheet

## Sodium Thiosulfate Pentahydrate

### Section 1: Chemical Product Identifier and Synonyms

Product Name: Sodium Thiosulfate Pentahydrate

UN Number: Not applicable.

CAS Number: 10102-17-7

Synonym: Sodium Hyposulphite, Hyposulphite of Soda, Sodium Thiosulfate, Sodium Hyposulfite, Hyposulphite of Soda

Chemical Formula: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>·5H<sub>2</sub>O

### Section 2: Composition and Information on Ingredients

#### Composition

Name	CAS Number:	% By Weight
Sodium Thiosulfate Pentahydrate	10102-17-7	>99%

**Toxicology Data On Ingredients:** Sodium Thiosulfate Pentahydrate LD50: Not Available. LC50: Not Available

### Section 3: Hazards Identification

#### Potential Acute Health Effects:

Slightly hazardous in case of eye contact (irritant), of ingestion, of inhalation.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing.

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

#### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged

exposure is not known to aggravate medical condition.

#### Section 4: First Aid Measures

**Eye Contact:**

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

**Skin Contact:**

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**Inhalation:**

Allow victim to breathe fresh air. Allow the victim to rest.

**Ingestion:**

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** Non-Flammable.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** Not applicable.

**Explosion Hazards in Presence of Various Substances:** Not available.

**Risks of explosion of the product in presence of mechanical impact:** Not available.

**Risks of explosion of the product in presence of static discharge:** Not available.

**Fire Fighting Media and Instructions:** Extinguish with: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Special Remarks on Fire Hazards:** Do not use a heavy water stream.

**Special Remarks on Explosion Hazards:** Not available.

#### Section 6: Accidental Release Measures

**Small Spill:**

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Keep people away from and upwind of spill/leak.

**Large Spill:**

On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

## Section 7: Handling and Storage

### **Precautions:**

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

### **Storage:**

Keep container closed when not in use.

## Section 8: Exposure Controls / Personal Protection

### **Engineering Controls:**

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### **Personal Protection:**

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter type P3.

### **Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### **Exposure Limits:**

Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Efflorescent Crystalline Powder

**Odour:** Odourless.

**Taste:** Not available.

**Molecular Weight:** 248.18 g/mole

**Colour:** Not available.

**pH (1% soln/water):** 6 - 8.4 5% solution

**Boiling Point:** 100 °C

**Melting Point:** 45 °C

**Critical Temperature:** Not available.

**Specific Gravity:** 1.73 (Water = 1)

**Vapour Pressure:** Not available.

**Vapour Density:** Not available.

**Volatility:** Not available.

**Odour Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Soluble in water. Soluble in ammonia. Insoluble in organic solvents. Water: 79.4

g/100ml

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable under normal conditions.

**Instability Temperature:** Not available.

**Conditions of Instability:** Direct sunlight. Air and moisture sensitive. Hygroscopic.

**Incompatibility with various substances:** Strong oxidizers.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Not available.

## Section 11: Toxicological Information

**Routes of Entry:** Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** (LD50): Not available. LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Slightly hazardous in case of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Not available.

**Toxicity of the Products of Biodegradation:** The products of degradation are as toxic as the original product.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Information

**Waste Disposal:** Dispose of in accordance with local regulations

## Section 14: Transport Information

**DOT Classification:** Not regulated.

**Identification:** Not regulated.

**Special Provisions for Transport:** Not available.

## Section 15: Regulatory Information

**Regulations:** Labelling according to Regulation (EC) No 1272/2008.

## Section 16: Other Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. The author will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.

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