

SAFETY DATA SHEET

1. Identification of the Substance and of the Company

Revised: May 20, 2015

Product Name: Sodium Thiosulfate Pentahydrate (Photo Grade)

Product Use: A moderate reducing agent. A source of thiosulfate ion ($S_2O_3^{2-}$) (dissolves silver salts). Its major use is as a fixing agent in photography for developing film and the extracting silver from ore. It is used in chrome-tanning leather and in chemical manufacture as a source of sulfide ion. It is also used in paper, textile, and water treatment industry and gas purification.

Company



Distributed by: WESTCO CHEMICALS, INC.
12551 Saticoy St. South
North Hollywood, CA 91605
Tel: 818-255-3655
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Information / Emergency Telephone

CHEMTREC
DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL: 703-527-3887 (collect calls accepted)

2. Hazard Identification

GHS-US Classification

Not classified

GHS-US Label Elements

Not applicable

Hazards not covered by GHS-US

Not classified

3. Composition/ Information on Ingredients

Synonyms: Sodium Hyposulfate, Pentahydrate; Sodium Thiosulphate $5H_2O$; Disodium Thiosulfate Pentahydrate

CAS No: 10102-17-7

Molecular Formula: $Na_2O_3S_2 \cdot 5H_2O$

Molecular Weight: 248.18 g/mol

Appearance: Monoclinic system crystal, colorless transparent body

Purity: 99.00% Min

4. First-Aid Measures

Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical attention if irritation occurs.

Skin Contact

Remove any contaminated clothing. Wipe off excess from skin. Wash skin with soap and flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Inhalation

If inhaled, remove to fresh air immediately and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention for any breathing difficulty.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

5. Fire Fighting Measures**Specific hazards arising from the chemical**

Sulphur oxides, Sodium oxides

Fire-fighting equipment/ instructions

Evacuate personnel to a safe area. If necessary, firefighters should use self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media

In case of a fire, use water spray, dry chemical, carbon dioxide, or chemical foam.

Auto-ignition Temperature: Not data available

Flash Point: Not data available

Explosion Limits: Not data available

Reactivity: Not data available

Flammability of the Product: No data available

Flammable Limits: Not data available

NFPA Rating: Health-0; flammability-0; reactivity-0

6. Accidental Release Measures**Personal precautions, protective equipment, and emergency procedures**

Use proper personal protective equipment as indicated in Section 8. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation.

Containment and Cleaning up

Handle in accordance with industrial hygiene and safety practices. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Avoid generating dusty conditions. Finish cleaning the contaminated surface and dispose of according to local and regional authority requirements.

Environmental precautions

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Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

7. Handling and Storage

Precautions

Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Do not swallow. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wash hands and other exposed areas with mild soap and water after handling. Handle in accordance with good industrial hygiene and safety procedures.

Storage

Keep container tightly closed. Store in a dry, cool, and well-ventilated place. Keep away from heat. Empty containers should be handled with care because it may contain residual amounts of this product.

8. Exposure Controls / Personal Protection

Engineering Controls

Use adequate ventilation or other engineering controls to keep airborne concentrations below recommended exposure limits. See **OSHA Regulations state in 29 CFR 1910.151 (c)** for an eyewash facility and safety shower requirement.

Personal Protective Equipment

Eyes: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. Physical and Chemical Properties

Appearance: Monoclinic system crystal, colorless transparent body

Purity: 99.00% Min

Insoluble Substance in Water: 0.01% Max

Sulfide: 0.001% Max

Fe: 0.001% Max

pH: 6.5~9.5

Particle Size/ GRAM: 12~16

Odour: No data available

Odour Threshold: No data available

Melting Point: 43 °C

Initial boiling point and boiling range: No data available

Evaporation rate: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: No data available

Viscosity: No data available

Oxidizing properties: No data available

10. Stability and Reactivity

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Stability: Stable under ordinary conditions

Reactivity: No data available

Conditions to avoid: Air sensitive. Light Sensitive.

Incompatibilities with other materials: Strong oxidizing agents

Hazardous decomposition products: Oxides of sodium and sulfur

Hazardous polymerization: Does not occur

11. Toxicological Information

Acute toxicity

LD50 oral-rat: 5000mg/kg

LC50 inhalation-rat: NA

Skin corrosion/ irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitization

No data available

Carcinogenicity

The components of this product are not listed as carcinogen by ACGIH, IARC, NIOSH, NTP, or OSHA

Special Remarks on Toxicity to Animals: No data available

Special Remarks on Chronic Effects on Humans: No data available

Special Remarks on other Toxic Effects on Humans: No data available

12. Ecological Information

No data available

13. Disposal Information

Waste Disposal

Keep out of sewers and waterways. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport Information

US DOT

Not regulated as a hazardous material

Canada TDG

Not regulated as a hazardous material

IMDG/ IATA

Not regulated as a hazardous material

15. Regulatory Information

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TSCA

Not listed on the TSCA inventory.

SARA 302

No chemical reportable under requirements of SARA Title III, Section 302.

CERCLA/SARA Section 313

Not chemical reportable under SARA Title III, Section 313.

OSHA - Highly Hazardous

Not considered highly hazardous by OSHA.

US State

State Right to Know:

CAS#10102-17-7 is listed on the following state right to know lists: New Jersey, Pennsylvania.

California Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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16. Other Information

HMIS Rating

Health hazard-0 Flammability-0 Physical Hazard-0 Chronic Health Hazard-

NFPA Rating

Health-0; flammability-0; reactivity-0

Revision Date: May 20, 2015