

SODIUM THIOSULFATE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : SODIUM THIOSULFATE PENTAHYDRATE
PRODUCT USE : Reduces or eliminates chlorine and bromine in water
PRODUCT DESCRIPTION : Thiosulfuric Acid, Disodium Salt,
WHMIS CLASSIFICATION: Not Classified

DISTRIBUTED BY : CESCO SOLUTIONS, INC.
ADDRESS : 2227 Midway Lane, Bellingham, WA 98226

EMERGENCY PHONE : 1-800-424-9300
INFORMATION PHONE : (360) 733-7478

2. HAZARDS IDENTIFICATION

SIGNAL WORD: Warning



HAZARD STATEMENTS: May cause skin and eye irritation.
May cause irritation or damage to respiratory tract.
Harmful if swallowed.

POTENTIAL HEALTH EFFECTS

EYES:

Direct contact with the product causes irritation of the eyes.

SKIN:

Continuous contact may irritate skin. Red, dry, cracked skin.

INGESTION:

Harmful if swallowed. Hazardous in case of ingestion.

INHALATION:

Excessive levels may irritate the mucous membranes and upper respiratory tract.

MEDICAL CONDITIONS AGGRAVATED:

None known to occur.

CHRONIC (CANCER) INFORMATION:

N/AV

TERATOLOGY (BIRTH DEFECT) INFORMATION:

N/AV

REPRODUCTION INFORMATION:

N/AV

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component/Exposure Limits | CAS# | WT% |
|---------------------------------|------------|---------|
| Sodium Thiosulfate Pentahydrate | 10102-17-7 | 80-100% |

4. FIRST AID MEASURES

EYES:

Wash eyes immediately with plenty of running water for 15-20 minutes, or until no evidence of chemical remains, including under eyelids. Remove any contact lenses at once. Speed in beginning the eye wash is essential if permanent injury is to be avoided. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

Flush contaminated skin with water for 15 minutes, or until no evidence of chemical remains. Remove contaminated clothing under the shower immediately. Prolong washing in serious cases until doctor arrives. GET MEDICAL CARE FOR EVIDENCE OF BURNING. If evidence of chemical burn exists, cover with sterile, dry dressing. Bandage securely, but not too tightly.

INGESTION:

Do not induce vomiting. Drink a large glass of water. Treat symptomatically and supportively. GET MEDICAL ATTENTION IMMEDIATELY. CAUTION: IF UNCONSCIOUS OR HAVING TROUBLE BREATHING OR IN CONVULSIONS, DO NOT INDUCE VOMITING OR GIVE WATER.

INHALATION:

Remove from exposure to mist. If breathing has stopped, provide artificial respiration. Keep the person warm and at rest. OBTAIN IMMEDIATE MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: N/AV Method: N/AV
FLAMMABLE LIMITS: Lower: N/A Upper: N/A
AUTOIGNITION TEMPERATURE: N/AV

HAZARDOUS COMBUSTION PRODUCTS:

May emit toxic fumes of sulfur oxides, hydrogen sulfide, and sodium oxide when heated to decomposition.

EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide, water spray or foam.

FIREFIGHTING INSTRUCTIONS:

Wear full protective clothing and self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

When heated to decomposition it emits toxic fumes of sulfur oxide, hydrogen sulfide, and sodium oxide. An explosion may occur if triturated with nitrates, chlorates, or permanganates.

SENSITIVE TO STATIC DISCHARGE:

No information.

SENSITIVE TO IMPACT

No information.

6. ACCIDENTAL RELEASE MEASURES

Do not touch spilled material. Stop leak if you can without risk. For SMALL SPILLS use a clean shovel place all spilled material, contaminated soil and other contaminated material into a clean, dry container and cover for later disposal. Move containers from spill area. For LARGER SPILLS, dike far ahead of spill for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry.

7. HANDLING AND STORAGE

Store in well sealed containers which are protected from physical damage. Avoid handling conditions that can lead to spills or mist formation. Drains must have retention basins for pH adjustment and neutralization of spilled materials and flushings prior to discharge. Have abundant running water available where material is stored, unloaded or handled. Store above the freezing point of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide natural or mechanical ventilation to minimize exposure, especially where possibility of mist formation exists. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design exhaust systems.

RESPIRATORY PROTECTION:

None needed for normal operating conditions. Use approved dust respirator for low levels of airborne dust. High concentrations may require air supplied systems.

SKIN PROTECTION:

Apron or protective clothing, and rubber boots (tops covered by apron or clothing to prevent entrance of material).

EYE PROTECTION:

Employee must wear dust proof and/or dust-resistant safety goggles with a full face-shield to prevent eye contact with this substance. DO NOT WEAR CONTACT LENSES.

PROTECTIVE GLOVES:

Employee must wear appropriate protective gloves to prevent contact with this substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: >212 F

APPEARANCE & ODOR: solid with no odor.

VAPOR DENSITY: N/AV

VAPOR PRESSURE: N/AV

SPECIFIC GRAVITY: 1.70-1.75

pH: 11.4 (1% solution)

SOLUBILITY IN WATER: soluble in cold water, hot water.

VOC: N/AV

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID):

Stable at room temperature in closed containers under normal storage and handling conditions.

INCOMPATIBILITY:

Avoid moisture. Not compatible with iodine, acids, lead, mercury, and silver salts. Strong reducing agent. Can react with oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:

None.

HAZARDOUS POLYMERIZATION:

Not known to occur.

11. TOXICOLOGICAL INFORMATION

CHRONIC/CARCINOGENICITY:

N/AV

TERATOLOGY:

N/AV

REPRODUCTION:

N/AV

MUTAGENICITY:

N/AV

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

The product itself and its products of degradation are not toxic.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA (RESOURCE CONSERVATION & RECOVERY ACT) REQUIREMENTS:

Not a hazardous waste.

CLEAN WATER ACT REQUIREMENTS:

No Information.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION (USA):

Not regulated. Non-Hazardous.

TDG REGULATIONS (CANADA):

Not regulated. Non-Hazardous.

15. REGULATORY INFORMATION:

U.S. FEDERAL REGULATIONS:

SARA TITLE III (SUPERFUND AMENDMENTS & REAUTHORIZATION ACT):

302/304 EXTREMELY HAZARDOUS SUBSTANCES:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 302 requires notification of the State Emergency Response Commission (SERC) and Local Emergency Planning Committee (LEPC) of the presence of Extremely Hazardous Substances (EHS), 40 CFR 355 Appendix A, in amounts in excess of the threshold planning quantity (TPQ). Section 304 requires notification of SERC and LEPC of releases involving a RQ of an EHS or CERCLA Hazardous Substance.

311/312 HAZARD CATEGORIES:

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
Immediate (Acute) health hazard.

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313 REPORTABLE INGREDIENTS:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all SDS's that are copied or distributed for this material. Refer to Section 3, COMPOSITION/ INFORMATION ON INGREDIENTS, the components that are subject to reporting are designated by an asterisk (*).

TSCA (TOXIC SUBSTANCE CONTROL ACT) STATUS:

N/AV

RCRA (RESOURCE CONSERVATION & RECOVERY ACT) REQUIREMENTS:

N/AV

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:

N/AV

STATE REGULATIONS:

16. OTHER INFORMATION

NFPA RATINGS:

HEALTH (H): 2 FIRE (F): 0 REACTIVITY (R): 0

HMIS CODES:

HEALTH (H): 2 FIRE (F): 0 PHYSICAL HAZARD (P): 0

SDS REVISION DATE: November 13, 2020

NAME OF PREPARER: Environmental and Regulatory Department

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MANUFACTURER DISCLAIMER:

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