



# Aqua Chemical Supply, Inc.

183 Moore Street – Millersburg – PA – 17061  
Office 717-692-7369 / 1-866-375-2782 Fax 717-692-3280

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: SODIUM THIOSULFATE ANHYD PHOTO GRADE GRAN  
Synonyms: Sodium Thiosulfate Anhydrous, Sodium Hyposulfite; "hypo"; Sodium Thiosulfate Crystal; Prismatic Rice.

Chemical Family: None Known

Application: Photographical agent. Water treatment (potable and waste water). Pulp and paper.

Manufacturer/supplier/Distributor: Sal Chemical, 3036 Birch Dr., Weirton, WV 26062

Emergency telephone number: For emergency assistance involving chemicals call  
CHEMTREC day or night at: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: May cause mechanical irritation.

Skin Contact: Mild Skin Irritation (after prolonged or repeated contact): sign/symptoms can include redness, swelling, and itching.

Inhalation: May irritate mouth, nose, and throat. Contact with acids releases sulfur dioxide and/or hydrogen sulfide gas which may be harmful or deadly if inhaled.

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury.

Swallowing larger amounts may cause gastrointestinal symptoms.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	Percentage(W/W)	LD50s and LC50s Route & Species:
Sodium Thiosulphate	7772-98-7	60-100	Oral LD50 Rat > 5000 mg/kg

Note: Other CAS# 10102-17-7 (Pentahydrate)

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. FIRST AID MEASURES

Eye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists or signs of toxicity occur, seek medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. Get medical attention immediately.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

Notes to Physician: Treat symptomatically

## 5. FIRE FIGHTING MEASURES

Flash Point: None.

Flash Point Method: Not applicable. Autoignition Temperature: Not available. Flammable Limits in Air (%): Not Available.

Extinguishing Media: Does not burn. Use extinguishing media appropriate for surrounding fire.

Special Exposure Hazards: Use fine water spray or fog to control fire spread and cool adjacent structures or containers.

Hazardous Decomposition/Combustion Materials (under fire conditions): Oxides of Sulphur. Hydrogen sulfide.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 0, INSTABILITY 0

HMIS RATINGS FOR THIS PRODUCT ARE: Not Available

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Spills or releases should be reported, if required to the appropriate municipal, provincial and federal agencies.  
 Procedure for Clean Up: Scoop up or vacuum up and place in an appropriate closed container. Use a method that does not generate dust. Cautiously spray residue with plenty of water.

### 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing in dust. Use with adequate ventilation. If dissolving and mixing solutions: with anhydrous material, the reaction is exothermic and the solution will retain heat; with the hydrate (crystal) material, the reaction is endothermic and the solution will cool.  
 Storage: Store in a cool, dry, well ventilated area. Store away from oxidizing agents. Keep containers tightly closed. Protect against physical damage.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. If sulfur dioxide and/or hydrogen sulfide gas should be released, use a NIOSH approved self-contained breathing apparatus or supplied-air respirator.

Gloves: Cotton gloves permitted for dry product, impervious gloves when handling solutions.

Skin Protection: For handling dry material, wear cotton gloves and full work clothing, including long-sleeved shirt and trousers. When handling solutions, wear impervious gloves and an apron.

Eyes: Safety glasses with side shields or chemical goggles. Do NOT wear contact lenses.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit – OSHA	Immediately Dangerous to Life or Health – IDLH
Sodium Thiosulphate	Not available.	Not available.	Not Available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Granular or Crystals Solid

Color: Clear to white

Odor: Odorless

pH 8.6 (7.5% solution)

Specific Gravity: 1.667 (anhydrous) 1.685 (pentahydrate)

Boiling Point: >100°C />212°F

Freezing/Melting Point: 48°C / 118 °F Loses water at 100°C (pentahydrate)

Vapor Pressure: Not Available.

Vapor Density: Not Available.

% Volatile by Volume: Not Available. Evaporation Rate: Not Available. Solubility: 33% @ 0 °C

VOCs: Not Available.

Viscosity: Not Available.

Molecular Weight: 158.11 (anhydrous) 248.18 (pentahydrate)

Other: Not Available

### 10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

Materials to Avoid: Strong oxidizers. Acids.

Hazardous Decomposition Products: Sulphur dioxide. Hydrogen sulfide. Sodium sulfide residue.

Additional Information: No additional remark.

### 11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury.

Swallowing larger amounts may cause gastrointestinal symptoms.

Skin Contact: Mild Skin Irritation (after prolonged or repeated contact): sign/symptoms can include redness, swelling, and itching.

Inhalation: May irritate mouth, nose, and throat. Contact with acids releases sulfur dioxide and/or hydrogen sulfide gas which may be harmful or deadly if inhaled.

Eye Contact: May cause mechanical irritation.

**Additional Information:****Acute Test of Product:**

Acute Oral LD50: Not Available.

Acute Dermal LD50: Not Available.

Acute Inhalation LC50: Not Available.

**Carcinogenicity:**

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Sodium Thiosulphate	Not listed.	Not listed.

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity: Not Available

**12. ECOLOGICAL INFORMATION****Ecotoxicological Information:**

Ingredients	Ecotoxicity - Fish Species	Data	Acute Crustaceans	Ecotoxicity –
			Toxicity:	Freshwater Algae Data
Sodium Thiosulphate	24000 mg/L LC50 (Gambusia affinis)		Not Available.	Not Available.
	96 h static			

Other Information: No additional remark

**13. DISPOSAL CONSIDERATION**

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

**14. TRANSPORT INFORMATION****DOT (U.S.):**

DOT Shipping Name: Not Regulated. DOT Hazardous Class Not Applicable. DOT UN Number: Not Applicable.

DOT Packing Group: Not Applicable.

DOT Reportable Quantity (lbs): Not Available.

Note: No additional remark.

Marine Pollutant: No.

**TDG (Canada):**

TDG Shipping Name: Not Regulated.

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

**15. REGULATORY INFORMATION**

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

**U.S. Regulatory Rules**

Ingredients	CERCLA/SARA –	SARA (311, 312)	CERCLA/SARA
	Section 302:	Hazard Class:	Section 313:
Sodium Thiosulphate	Not Listed.	Not Listed.	Not Listed.

California Proposition 65: Not Listed.

MA Right to Know List: Not Listed.

New Jersey Right-to-Know List: Not Listed.  
Pennsylvania Right to Know List: Not Listed.

WHMIS Hazardous Class:  
D2B TOXIC MATERIALS

Additional Information: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

### Notice

Aqua Chemical Supply, Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Aqua Chemical Supply, Inc. sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Aqua Chemical Supply, Inc. makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Aqua Chemical Supply, Inc.'s control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.