



SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: CHLORINE NEUTRALIZER
Synonym(s): Sodium Thiosulfate Pentahydrate, Sodium Oxide Sulfide, Disodium Thiosulfate, Chlorine Neutralizer
Recommended Uses: Lowers chlorine levels in pools
SDS Reference: 96
Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: WATER TECHNIQUES, INC
6010 NW FIRST PLACE 14260 W. NEWBERRY RD #162
GAINESVILLE, FL 32607 NEWBERRY FL 32669
Tel: 352-378-9696
24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

2. HAZARD(S) IDENTIFICATION

Classification: Not subject to GHS classification.
Signal Word: Not required
Hazard Statements: HAZARDS NOT OTHERWISE CLASSIFIED (HNOC): WARNING! MAY CAUSE EYE AND SKIN IRRITATION. RELEASES TOXIC, IRRITATING GAS AT HIGH TEMPERATURES (100°C). MAY CAUSE ALLERGIC REACTION.
Precautionary Statements: Avoid contact with eyes and skin. Avoid breathing dust. Avoid exposure of material to high temperatures. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.
Eye Contact: Exposure to particulates or solution of this product may cause irritation of the eyes such as stinging, tearing, redness and pain.
Skin Contact: Can cause irritation of the skin, especially after prolonged exposure. Repeated skin contact may lead to dermatitis (red, cracked skin). In sensitive individuals, exposure to this product can cause allergic reaction.
Inhalation: Breathing dust or particulates generated by this product can lead to irritation of the nose, throat or respiratory system. Symptoms of such exposure could include coughing, sneezing, and chest discomfort. Inhalation of vapors and fumes when this product is heated above 100 °C (sulfur dioxide gas) will cause significant irritation.
Ingestion: Ingestion (especially in large volumes) can irritate the tissues of the mouth, esophagus, and other tissues of the digestive system. Symptoms of exposure can include vomiting, diarrhea and nausea and systemic effects of cyanosis. Large doses by ingestion can also have a cathartic action, causing diarrhea.

3. COMPOSITION

	<u>PERCENT %</u>	<u>CAS #</u>
Chemical Name: Sodium Thiosulfate Pentahydrate	>90	10102-17-7

4. FIRST AID

If In Eyes: In case of contact with eyes, rinse immediately with plenty of water for at least 20 minutes. Seek immediate medical attention.
If on Skin or Clothing: Remove all contaminated clothing. For skin contact, wash thoroughly with soap and water for at least 20 minutes. Seek immediate medical attention if irritation develops or persists.
If Inhaled: Remove source of contamination or move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Get immediate medical attention.
If Swallowed: DO NOT INDUCE VOMITING. If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to a victim who is unconscious or having convulsions. Contact a physician or poison control center immediately.
Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIREFIGHTING MEASURES

Suitable / Unsuitable Extinguishing Media: Use methods for the surrounding fire and other materials involved in the fire.
Specific Hazards from Chemical: Heating this product above 100°C will release hazardous sulfur dioxide gas.
Special Protective Equipment: Firefighters should wear full protective clothing including self-contained breathing apparatus. If possible, control runoff from fire control or dilution water to prevent environmental contamination.



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Other Information: Explosion hazard with sodium nitrite and metal nitrites.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for Personal Protective Equipment.
Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. In case of large spills, follow all facility emergency response procedures.
Stop the flow of material, if this can be done without risk. Contain the discharged material. If sweeping of a contaminated area is necessary use a dust suppressant agent, which does not react with this product (see Section 10 for incompatibility information).
Remove soiled clothing and laundry before reuse. Avoid all skin contact with the spilled material. Have emergency equipment readily available.

Methods and Materials for cleanup: Small releases can be cleaned-up wearing gloves, goggles and suitable body protection. In case of large spills (in which excessive dusts can be generated), clear the affected area, protect people, and respond with trained personnel. Do not allow spilled product to enter public drainage system or open water courses. Place all spill residues in an appropriate container and seal. Thoroughly wash the area after a spill or leak clean-up. Prevent spill rinsate from contamination of storm drains, sewers, soil or groundwater.

7. HANDLING AND STORAGE

Handling: All employees who handle this material should be trained to handle it safely. Do not breathe dust. Avoid all contact with skin and eyes. Avoid accumulation of dusts of this product. Use this product only with adequate ventilation. Wash thoroughly after handling.

Storage: Keep container tightly closed when not in use. Store containers in a cool, dry location away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (See Section 10). Storage areas should be made of corrosion- and fire-resistant materials. Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Use corrosion-resistant structural materials, lighting and ventilation systems in the storage area. Floors should be sealed to prevent absorption of this material. Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged. Have appropriate extinguishing equipment in the storage area (ie sprinkler system, portable fire extinguishers).
Empty containers may contain residual particulates, therefore empty containers should be handled with care. Do not cut, grind, weld or drill near this container. Never store food, feed or drinking water in containers that held this product. Keep this material away from food, drink and animal feed. Do not store this material in open or unlabeled containers. Limit quantity of material stored.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit: Sulfur dioxide, which may be released at high temperatures and has an OSHA established exposure limit of 2 ppm TWA and 5 ppm STEL (15 minutes). NIOSH has recommended an exposure limit of 2 ppm TWA and has established a level of 100 ppm as Immediately Dangerous to Life and Health (IDLH).

ACGIH, OSHA and NIOSH have not developed exposure limits for any of this products components. The exposure limits given below are for Particulates Not Otherwise Classified:

OSHA:
Total Dust TWA - 15 mg/m³
Respirable Fraction TWA - 5 mg/m³
DFG MAKs:
Inhalable Fraction TWA - 4 mg/m³
Respirable Fraction TWA - 1.5 mg/m³

Appropriate Engineering Controls: Use mechanical ventilation such as dilution and local exhaust. Use a corrosion-resistant ventilation system and exhaust directly to the outside. Supply ample air replacement.

Individual Protection Measures: In general, wash hands thoroughly after handling material. Do not eat, drink or smoke in work areas. Have a safety shower or eye-wash fountain available. The below information is to assist employers in complying with OSHA regulation in 29 CFR Subpart 1 (beginning at 1910.132). Please reference the applicable regulations and standards for relevant details.
Eye Protection: Wear safety glasses or goggles. If necessary, refer to US OSHA 29 CFR 1910.133.
Skin Protection: Wear impervious gloves, boots and coveralls to avoid skin contact. If necessary, refer to US OSHA 29 CFR 1910.138.
Respiratory Protection: No specific guidelines are available. If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection. An approved dust and mist air-purifying respirator may be adequate. If respiratory protection is needed, use only protection authorized in



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the US Federal OSHA Standard (29 CFR 1910.134). Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use a full-face piece pressure/demand SCBA or full-face piece supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystalline granules or powder	Flammability (solid/gas):	Not flammable
Odor:	Odorless	Upper/lower Flammability or Exposure limits:	Not applicable
Odor Threshold:	No data available	Vapor Pressure:	0
pH:	6.5 - 8.0 (1% solution)	Vapor Density:	Not applicable
Melting Point/Freezing Point:	No data available	Density:	1.69 (H ₂ O = 1)
Initial Boiling Point/Boiling Range:	Decomposes above 100°C	Partition Coefficient: n-octanol/water:	No data available
Flash Point:	Not flammable	Auto-ignition Temperature:	Not applicable
Evaporation Rate:	No data available	Decomposition Temperature:	100°C
		Viscosity:	No data available

10. STABILITY AND REACTIVITY

Stability/Reactivity:	Product is normally stable in solid form. May be unstable in solution. Sodium Thiosulfate is hygroscopic; on exposure to air it will absorb water.
Possibilities of Hazardous Reactions:	Hazardous Polymerization: Will Not Occur
Conditions to Avoid:	Avoid high temperatures, exposure to air, moisture and incompatible materials.
Incompatible Materials:	Incompatible with strong oxidizers and acids. Sodium Thiosulfate can react violently with Sodium Nitrite. Sodium Thiosulfate is also incompatible with mercury and iodine.
Hazardous Decomposition Materials:	Sulfur oxides and hydrogen sulfide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Poisonous by intravenous route. Mildly toxic by ingestion. Human systemic effects by ingestion, including cyanosis. Prolonged skin contact may cause allergic skin reactions (allergic dermatitis). Sodium Thiosulfate: LD50 Intraperitoneal Mouse: 5600 mg/kg LD50 Intravenous Mouse: 2350 mg/kg LDLo Intravenous adult Dog: 3000 mg/kg LD50 Intravenous rat: >2500 mg/kg
Chronic Toxicity:	Component Analysis: TDL _o Oral Human: 300 mg/kg/7 days; Pulmonary system effects Long term skin over-exposure to this product may lead to dermatitis (red, itchy skin).
Reproductive Toxicity:	No data available.
Carcinogenicity:	Sodium Thiosulfate is not listed by ACGHI, IARC, NIOSH, NTP or OSHA.
Mutagenicity:	No data available.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	This product may be harmful to aquatic life in high concentrations.
Avian Toxicity:	No data available.
Environmental Hazards:	No potential for food chain concentrations.

13. DISPOSAL CONSIDERATIONS

Disposal:	As shipped, this product is not considered a hazardous waste. No EPA Waste Numbers are applicable for this product. All wastes must be handled in accordance with local, state and federal regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local
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hazardous waste regulatory authority.

14. TRANSPORTATION INFORMATION

Package exceptions may be applicable. Refer to the appropriate IMDG, IATA and/or 49 CFR regulations accordingly.

DOT: Not Regulated

15. REGULATORY INFORMATION

TSCA: CAS# 10102-17-7 is not on the TSCA Inventory as it is a hydrate. 40 CFR 720.3(u)(2) as long as the anhydrous form is on the inventory and is not a new substance. CAS # 7772-98-7 is listed on the TSCA Inventory.

SARA (311, 312): Immediate Health Hazard.
Chronic Health Hazard.

SARA 313: None of the ingredients are listed.

Right To Know Hazardous Substance List: California Proposition 65: This product is not listed.

Waste Classification: This product is not considered a hazardous waste. No EPA Waste Numbers are applicable for this product. All wastes must be handled in accordance with local, state and federal regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Workplace Classification: This product is not considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

CERCLA Reportable Quantity: Not applicable.

16. OTHER INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. The information in this SDS was obtained from sources, which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

HMIS Rating: No data available

NFPA Rating: No data available

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Special Hazard Warning: Not applicable