



SAFETY DATA SHEET  
Chlorine Neutralizer - 0320

**Product Name:** Chlorine Neutralizer  
**Date:** 5/19/2015

SECTION 1 **IDENTIFICATION**

**Supplier:** Phoenix Products Company  
55 Container Drive  
Terryville, CT 06786  
(860) 589-7502

**Distributor:**

**U.S. PERS Emergency Telephone:** 1-800-633-8253

**Product Name:** Chlorine Neutralizer

**Synonyms:** Thiosulfuric acid, disodium salt; sodium hyposulfite

**Chemical Name:** Sodium Thiosulfate

**Chemical Formula:** Na<sub>2</sub>O<sub>3</sub>S<sub>2</sub>

**CAS Number:** 7772-98-7

SECTION 2 **HAZARDOUS COMPONENTS**

**Emergency Overview**

**OSHA Regulatory Status:** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**Information concerning particular hazards for human and environment:** Not applicable.  
No information known.

**HMIS Ratings (scale 0-4)(Hazardous Materials Identification System)**

HEALTH	1
FIRE	0
REACTIVITY	1

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

SECTION 3 **COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Percent</b>
Sodium Thiosulfate	7772-98-7	100%

SECTION 4 **FIRST-AID MEASURES**

**INHALATION:** Move victim to fresh air immediately. If required, provide artificial respiration. Seek medical treatment if breathing is difficult.

**SKIN CONTACT:** Immediately wash with water and soap and rinse thoroughly. Seek medical treatment if irritation develops.

**EYE CONTACT:** Rinse opened eye for several minutes under running water. Seek medical treatment if irritation develops.



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**INGESTION:** Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical treatment if irritation develops.

**SECTION 5 FIRE FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Agents:** Product is not flammable. Use fire fighting measures that suit the surrounding fire. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Hazards Arising From The Substance or Mixture:**

If this product is involved in a fire, the following can be released:

Sodium Oxide  
Sulfur Oxides (SO<sub>x</sub>)

**Advice For Firefighters**

Protective Equipment:

Wear self-contained respirator.  
Wear fully protective impervious suit.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid dust formation. Avoid breathing vapors, mist or gas.

**Environmental Precautions:** Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground or soil.

**Methods and Material for Containment and Cleaning Up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Prevention of secondary hazards:** No special measures required.

**SECTION 7 HANDLING AND STORAGE**

**Handling:** Keep container tightly sealed. Store in a cool, dry place in tightly closed containers. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

**Information about protection against explosions and fires:** The product is not flammable.

**Storage:** Keep container tightly closed in a dry and well-ventilated place. Do not store near acids. Store away from oxidizing agents. Store away from water/moisture. This product is hygroscopic. Store at room temperature. Keep container tightly sealed.

**Specific End Use(s):** No further relevant information available.

**SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION**

**Permissible Exposure Limits**



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Ingredient CAS No.	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL
7772-98-7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

**SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION - Continued**

**Control Parameters**

**Components with Workplace Control Parameters:** Contains no substances with occupational exposure limit values.

**Appropriate Engineering Controls:** General industrial hygiene practice.

**Personal Protective Equipment**

**General Protective and Hygienic Measures:** The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solid and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment.

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

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of Environmental Exposure:** Do not let product enter drains.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	White Granules
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	No Data Available
<b>pH:</b>	6 – 8.5 at 50 g/l at 20°C (68°F)
<b>Melting Point/Freezing Point:</b>	52°C (126°F) – Decomposes on heating.
<b>Initial Boiling Point and Boiling Range:</b>	> 100°C (212°F)
<b>Flash Point:</b>	No Data Available
<b>Evaporation Rate:</b>	No Data Available
<b>Flammability (solid, gas):</b>	No Data Available
<b>Upper/Lower Flammability or Explosive Limits:</b>	No Data Available
<b>Ignition Temperature:</b>	No Data Available
<b>Decomposition Temperature:</b>	No Data Available
<b>Auto-Ignition Temperature:</b>	No Data Available
<b>Danger of Explosion:</b>	Product does not present an explosion hazard.
<b>Explosive Properties:</b>	No Data Available
<b>Vapor Pressure:</b>	No Data Available
<b>Vapor Density:</b>	No Data Available
<b>Relative Density:</b>	1.667 g/cm <sup>3</sup> at 20°C (68°F)



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**Solubility in / Miscibility with Water at 20°C (68°F):** 500 g/l  
Soluble  
**Partition coefficient (n-octanol/water):** No Data Available  
**Viscosity:** No Data Available  
**Oxidizing Properties:** No Data Available

SECTION 10 **STABILITY AND REACTIVITY**

**Reactivity:** No Data Available  
**Chemical Stability:** Stable under recommended storage conditions.

**Thermal Decomposition / Conditions To Be Avoided:** Decomposition will not occur if used and stored according to specifications

**Possibility of Hazardous Reactions:** No Data Available

**Conditions to Avoid:** Incompatibles

**Hazardous Polymerization:** Will not occur.

**Incompatible Materials:** Oxidizing agents  
Water/moisture

**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.  
Sodium Oxide  
Sulfur Oxides

SECTION 11 **TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** LD50 Oral – rat - > 8,000 mg/kg  
Inhalation: No Data Available  
Dermal: No Data Available  
LD50 Intraperitoneal – mouse – 5,200 mg/kg

**Skin Corrosion/Irritation:** May cause irritation.

**Serious Eye Damage/Eye Irritation:** May cause irritation.

**Respiratory or Skin Sensitization:** No Data Available

**Germ Cell Mutagenicity:** No effects known

**Carcinogenicity:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at level greater than or equal to 0.1% is identifies as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** No Data Available.

**Specific Target Organ Toxicity – Single Exposure:** No Data Available.

**Specific Target Organ Toxicity – Repeated Exposure:** No Data Available.

**Aspiration Hazard:** No Data Available.

**Subacute to Chronic Toxicity:** The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals:

Behavioral – convulsions or effect on seizure threshold.

Immunological including Allergic – decreased immune response.



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Immunological including Allergic – decrease in cellular immune response.  
Immunological including Allergic – decrease in humoral immune response.  
Nutritional and Gross Metabolic – changes in sodium.

**Additional Information:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12      *ECOLOGICAL INFORMATION***

**Toxicity:** Toxicity to Fish: LC50 – *Gambusia affinis* (Mosquito fish) – 24,000 mg/l – 96 h  
**Persistence and Degradability:** No Data Available  
**Bioaccumulative Potential:** No Data Available  
**Mobility in Soil:** No Data Available

**Results of PBT and vPvB Assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**General Notes:** Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Avoid transfer into the environment.

**Other Adverse Effects:** No Data Available.

**SECTION 13      *DISPOSAL CONSIDERATIONS***

**Waste Treatment Methods**

**Recommended:** Consult state, local or national regulations to ensure proper disposal.  
**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company.  
**Contaminated Packaging:** Dispose of as unused product. Disposal must be made according to official regulations  
**Recommended Cleansing Agent:** Water, if necessary with cleansing agents.

**SECTION 14      *TRANSPORT INFORMATION***

**DOT:** Not Regulated  
**TDG:** Not Regulated  
**MEX:** Not Regulated  
**IMDG:** Not Regulated  
**IATA:** Not Regulated

**SECTION 15      *REGULATORY INFORMATION***

**Chemical Inventory Status – Part 1**

	TSCA	EC	Japan	Australia
Sodium Thiosulfate (7772-98-7)	Yes	Yes	Yes	Yes

**Chemical Inventory Status – Part 2**

	Canada			
	Korea	DSL	NDSL	Phil.
Sodium Thiosulfate (7772-98-7)	Yes	Yes	No	Yes

**Federal, State & International Regulations – Part 1**

	SARA 302		SARA 313	
	RQ	TPQ	List	Chemical Catg.



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Sodium Thiosulfate (7772-98-7)	No	No	No	No
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Federal, State & International Regulations – Part 2			
		RCRA	TSCA
	CERCLA	261.33	8 (d)
Sodium Thiosulfate (7772-98-7)	No	No	No

SECTION 15 **REGULATORY INFORMATION - Continued**

**SARA 311/312 Hazards**  
No Sara Hazards

**Massachusetts Right To Know Components**  
No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**  
Sodium Thiosulphate CAS No. 7772-98-7

**New Jersey Right To Know Components**  
Sodium Thiosulphate CAS No. 7772-98-7

**California Prop. 65 Components**  
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 **OTHER INFORMATION**

No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which the information refers.

Date: 5/19/2015  
Phoenix Products Company