

**TETRA Technologies, Inc.**  
**MATERIAL SAFETY DATA SHEET**



# TETRA TEMPERATURE STABILIZER

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## 1. PRODUCT AND COMPANY IDENTIFICATION

TETRA Technologies, Inc. 25025 I-45 North The Woodlands, TX 77380	CHEMTREC (24-Hr Emergency Response): (800) 424-9300 Poison Control: (800) 222-1222 Non-emergency Customer Service: (281) 367-1983 Product Disposal Information:	
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Substance:	TETRA Temperature Stabilizer		
Synonyms:	Sodium Thiosulfate, Pentahydrate, Thosulfuric Acid, Sodium Salt, PayZone ® 750		
Chemical Family:	Inorganic Salt		
MSDS Creation Date:	28 MAY 98		
MSDS Revision Date:	13 OCT 03		
NFPA Profile:	Health= 1	Flammability=0	Instability/Reactivity=0

## 2. HAZARDOUS COMPONENTS

CAS Number	Wt %	Component Name
10102-17-7	98%	Sodium Thiosulfate, Pentahydrate
007757-83-7	1%	Sodium Sulfite
007757-82-6	1%	Sodium Sulfate

## 3. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0-4): Health = 0 Fire = 0 Reactivity = 1

**Emergency Overview:** White, solid crystal. Eye and mucous membrane irritant. Acidic decomposition may release toxic and hazardous fumes of sulfur oxides which are so irritating that contact cannot be tolerated. Symptoms include coughing, hoarseness, sneezing, tearing and breathing difficulty. Workers who cannot escape exposure may suffer pulmonary damage which can be fatal.

**Potential Health Effects:**

Inhalation, Skin Contact, Eye Contact:	May cause irritation.
Ingestion:	Not likely to occur
Carcinogen Status:	OSHA – No; NTP – No; IARC – No

## 4. FIRST AID MEASURES

Inhalation:	Remove from exposure area to fresh air. Get medical attention in severe cases or if recovery is not rapid.
Skin Contact:	Remove contaminated clothing and shoes. Flush with large amounts of water.
Eye Contact:	Flush with large amounts of water. Get medical attention.
Ingestion:	Give large amounts of water or milk immediately. Get medical attention.
Notes to Physician:	Exposure may aggravate acute or chronic asthma, emphysema and bronchitis.

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**5. FIRE FIGHTING MEASURES**

Flashpoint:

Fire and Explosion Hazard: None indicated.

Extinguishing Media: Extinguish using agent suitable for type of surrounding fire.

Firefighting: Fire may produce toxic thermal decomposition products. Wear a self-contained breathing apparatus (SCBA) with full face piece operated in pressure-demand or positive-pressure mode.

Products of Combustion: May release hazardous gas.

**6. ACCIDENTAL RELEASE MEASURES**

Stop leak if you can do it without risk. Small spills can be neutralized with an alkaline material such as caustic soda. Leaks may be located by spraying the area with ammonium hydroxide solution which forms a white fume in the presence of sulfur dioxide. For larger spills, dike far ahead of spill for later disposal.

**7. HANDLING AND STORAGE**

Observe all federal, state, and local regulations when storing this liquid. Avoid contact. Do not breath dust or vapor. Store in a cool, dry place away from acids or oxidizers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Limits: No occupational exposure limits established by OSHA/ACGIH/NIOSH.

Ventilation: Provide local exhaust ventilation system.

Eye Protection: Wear safety glasses with splash shields or safety goggles/shield.

Clothing: Wear chemical resistant clothing.

Gloves: Wear chemical resistant gloves.

Respirator: Use of a NIOSH approved respirator should be based on contamination levels in the workplace or situation.

Emergency Wash Facilities: An eye wash fountain and quick drench shower should be available within the immediate work area for emergency use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Description: Solid, white crystal

Formula Weight: 248.18

Molecular Formula:  $\text{Na}_2\text{S}_2\text{O}_3$

Specific Gravity ( $\text{H}_2\text{O}=1$ ) 1.7

pH: 6.5 – 8.0 in aqueous solution

Water Solubility: 79.4% @ 0°C

Melting Point: 48.7°C

Evaporation Rate: Normal



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### **10. STABILITY AND REACTIVITY**

Reactivity:	Stable under normal conditions.
Incompatibilities:	<p>Acidic decomposition may release toxic and hazardous fumes of sulfur oxides, including sulfur dioxide. Acute poisoning from sulfur dioxide is rare because the gas is easily detected. It is so irritating that contact cannot be tolerated. Symptoms including coughing, hoarseness, sneezing, tearing and breathing difficulty. Workers who cannot escape exposure may suffer pulmonary damage which can be fatal.</p> <p>Contact with acid and oxidizing agents produce violent reactions. Reacts with water and steam to form corrosive sulfurous acid. Reacts with chlorates to form unstable chlorine dioxide.</p>
Hazardous Decomposition:	None under normal conditions.
Polymerization:	Does not occur under normal temperatures and pressures.
Conditions to Avoid:	Excessive heat, open flame and moisture.

### **11. TOXICOLOGICAL INFORMATION**

Sodium Thiosulfate Pentahydrate
TD <sub>10</sub> : 300 mg/kg/7 days, oral, human
LD <sub>10</sub> : >2,500 mg/kg, intravenous, rat
LD <sub>10</sub> : 5,600 mg/kg, intraperitoneal, mouse

### **12. ECOLOGICAL INFORMATION**

No data available.
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### **13. DISPOSAL INFORMATION**

Observe all federal, state and local regulations when disposing of this product.
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### **14. TRANSPORT INFORMATION**

DOT Shipping Name-ID Number: Non-regulated.
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**15. REGULATORY INFORMATION**

TSCA Status: Yes

Other TSCA Issues:

Cercla Section 103: No

SARA Section 302, 304, 313: No

SARA Hazard Categories, SARA Sections 311/312: No

SARA Title III Hazard Classifications:

OSHA Process Safety:

WHMIS Classification:

California Proposition 65:

**16. OTHER INFORMATION**

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

TETRA Technologies, Inc. reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.