

# Material Safety Data Sheet

## Product: Sodium Thiosulfate Pentahydrate Tablets

Effective Date: 4/8/2010

### Section 1 - Chemical and Company Information

Manufacturer: Cargille TAB-PRO Corporation  
 4 East Frederick Place  
 Cedar Knolls, NJ 07927  
 973-267-8888 (p)  
 973-267-7998 (f)  
[www.CargilleTabPro.com](http://www.CargilleTabPro.com)

Emergency Telephone No.: Chemtrec (800) 424-9300

Common Name: Sodium Thiosulfate Tablet, 100 mg or 50 mg. F code 1293

CAS No.(s): see section 2 (below).

### Section 2 - Composition Information on Ingredients

Sodium Thiosulfate Pentahydrate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> •5H <sub>2</sub> O	CAS No. 10102-17-7	approx. 16% by weight.
Sodium Chloride	NaCl	CAS No. 7647-14-5	approx. 84% by weight.

### Section 3 - Hazard Identification

#### Emergency Overview:

Health:	1	Slight Hazard
Fire:	0	Minimal Hazard
Reactivity:	0	Minimal Hazard
Personal Protection:	0	Minimal Hazard

Caution Statement: Keep out of reach of children.

### Section 4 - First Aid Measures

**Eyes Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie belt or waistband.

### Section 5 - Fire Fighting and Explosion Measures

Fire: Not considered to be a fire hazard.

Auto-Ignition Temperature: Not Applicable.

Flash Points: Not Applicable.

Flammable Limits: Not Applicable.

Products of Combustion: Not Available.

Fire Hazards in Presence of Various Substances: Not Applicable.

Explosion: Not considered to be an explosion hazard.

### Section 6 - Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system..

### Section 7 - Handling and Storage

Precautions: Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents, acids and alkalis.

Storage: Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area.

### Section 8 - Exposure Controls and Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation or other engineering controls to minimize airborne levels.

Personal Protection: Safety glasses. Lab Coat. A particulate respirator (NIOSH Type N95). Gloves.

Personal protection in Case of a Large Spill: Safety glasses. Coat. Dust respirator. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure limits: None established.

### Section 9 - Physical and Chemical Properties

Physical state and appearance: Solid White Tablets.

Odor: Odorless.

Taste: Saline.

Molecular Weight: Not Available.

Color: White.

pH (1% soln/water): pH of a 5% solution: 6.0 – 8.4

Boiling Point: > 100° C (212° F)

Melting Point: 48° C (118.4° F)

Critical Temperature: Not Available.

Specific Gravity: 2 approx. (Water=1)

Vapor Pressure: Not Applicable.

Volatility: Not Available.

Odor Threshold: Not Available.

Water/Oil Dist. Coeff.: Not Available.  
Ionicity (in Water): Not Available.  
Dispersion Properties: See solubility in water.

Solubility:

Soluble in cold water, hot water.  
Solubility of Sodium Thiosulfate pentahydrate in water:  
79 g/100 ml @ 4° C (39° F)  
680 g/liter @ 20° C (68° F)

Section 10 - Stability and Reactivity

Stability: The product is stable under ordinary conditions of use and storage.  
Hazardous Decomposition Products: Oxides of sulfur and hydrogen sulfide.  
When heated to above 801C(1474F) it emits toxic fumes of chloride and sodium oxide.  
Hazardous Polymerization: Will not occur.  
Incompatibilities: Sodium Nitrate, halogens, lithium, bromine trifluoride, and oxidizing agents. Reacts with acids to release sulfur dioxide.  
Conditions to Avoid Incompatible materials, moisture.  
Corrosivity: Non-corrosive in presence of glass.  
Special Remarks:  
Sodium Thiosulfate pentahydrate dissolves in its own water of hydration; it effloresces  
Sodium Thiosulfate pentahydrate loses water at 100° C.  
Hygroscopic; keep container tightly closed. Protect from moisture.

Section 11 - Disposal Considerations

Dispose of in accordance with all federal, state and local environmental control regulations

Section 12 - Transportation Information

DOT Classification: Not a DOT controlled material (United States)  
Identification: Not Applicable.  
Special Provisions for Transport: Not Applicable.

Section 13 - Regulatory Information

Federal and State Regulations: No products were found.  
Other Regulations: Not Available.  
Other Classifications:  
WHMIS: (Canada) Not controlled under WHMIS (Canada)  
DSCL (EEC):  
This product is not classified according to the EU regulations.  
S24/25-Avoid contact with skin and eyes.  
S28-After contact with skin, wash immediately with plenty of water.  
S37-Wear suitable gloves.  
S45-In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)  
HMIS (United States):  
Health Hazard: 1

Fire Hazard 0  
Reactivity: 0  
Personal Protection: E

National Fire Protection Association (United States):

Health: 1  
Flammability: 0  
Reactivity: 0  
Specific Hazard:  
Protective Equipment:  
Gloves.  
Lab Coat.  
Dust Respirator. Be sure to use an approved/certified respirator or equivalent.  
Wear appropriate respirator when ventilation is inadequate.  
Safety glasses.

Section 14 - Other Information

References: Not Available:  
Other Special Considerations: Not Available  
Created: 2/3/2010  
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