



HI 70403
Sodium Thiosulfate Pentahydrate
Safety Data Sheet

According to Regulation (EC) No. 1907/2006
OSHA Regulation 29 CFR 1910.1200
Canadian Regulation SOR/88-66

Revision Date: 2010-12-01
Reason for Revision: Regulation (EC) No. 1272/2008 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 70403 Sodium Thiosulfate Pentahydrate

Application: For Chemical Analysis

Company Information (USA):

Hanna Instruments, Inc.
584 Park East Dr, Woonsocket, Rhode Island, USA 02895

Technical Service Contact Information:

1-800-426-6287 (8:30AM - 5:00PM ET)
+1-401-766-4260 (8:30AM - 5:00PM ET)

USA Emergency Contact Information:

1-800-424-9300 (Chemtrec 24Hr. Emergency)

International Emergency Contact Information:

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

E-mail Address:

tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC.

Non-hazardous product as specified in OSHA Regulation 29 CFR 1910.1200.

Non-hazardous product as specified in Canadian Regulation SOR/88-66.

Non-hazardous product as specified in Regulation (EC) 1272/2008.

According to Directives 67/548/EEC and 1999/45/EC:

S-phrases: 22-24/25: Do not breathe dust. Avoid contact with skin and eyes.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Crystalline Powder

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air.

After Skin Contact: Wash affected area with plenty of water. Remove contaminated clothing.

After Eye Contact: Rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After Swallowing: Make victim drink plenty of water, induce vomiting, call in physician.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

Special Risks:

Non-combustible. Fire may liberate hazardous vapours. The following may develop in event of fire: Sulfur Oxides

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Cool container with spray water from a safe distance. Contain escaping vapours with water. Prevent fire residues and contaminated fire fighting water from entering surface water or groundwater.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid formation of dusts. Do not inhale dusts.

Environmental Precautions:

NA

Additional Notes:

Take up dry. Clean up affected area and dispose according to local regulation. Avoid generation of dusts.

SECTION 7: HANDLING AND STORAGE

Handling:

Avoid generation of dusts.

Storage:

Store at room temperature (+15 to +25 °C recommended). Tightly closed. Protect from light and moisture.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Respiratory Protection:

Required when dusts are generated. Work under hood.

Protective Gloves:

Rubber or plastic

Eye Protection:

Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Crystalline powder	Odor:	Odorless	Density at 20 °C:	1.74 g/cm ³
Melting Point:	48 °C	Boiling Point:	NA	Solubility:	701 g/L
pH at 20 °C:	6.2 @ 100 g/L	Explosion Limit:	NA	Flash Point:	NA
Thermal Decomp.:	100 °C (Release of water)				

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating (decomposition).

Hazardous Polymerization:

Will not occur.

Further Information:

Releases water of crystallization when heated. Dust explosion possible.

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Strong oxidizing agents, heavy metals; increased reactivity with nitrites and peroxi compounds (risk of explosion!) Formed could be: with acids sulfur dioxide

SECTION 11: TOXICOLOGICAL INFORMATION**Product Toxicity**

LD50 (oral, rat): >8000 mg/kg.
Subacute to chronic toxicity
Bacterial mutagenicity: Ames test: negative.

Potential Health Effects:

Eye Contact: Slight irritations.
Ingestion: Nausea, vomiting.
Further Data: No toxic effects are to be expected when the product is handled with the usual care when dealing with chemicals.

Component Toxicity**Acute Toxicity:**

Not Available

Chronic Toxicity:

Not Available

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxic effects:
Biological effects:
Fish toxicity: P.promelas LC50: >10000 mg/L /96 h; Gambusia affinis LC50: 26000 mg/L /48 h.
Daphnia toxicity: Daphnia magna EC50: 1223 mg/L /48 h.
Further ecologic data:
COD: 0.322 g/g.
COD 99 % from TOD.

Further Data: No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Can be safely disposed of as ordinary refuse.

SECTION 14: TRANSPORTATION INFORMATION**Land:**

Not subject to transport regulations

Sea:

Not subject to transport regulations

Air:

Not subject to transport regulations

SECTION 15: REGULATORY INFORMATION

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.
Complies with European Council Directives 67/548/EEC and 1999/45/EC.
Complies with OSHA Regulation 29 CFR 1910.1200.
Complies with Canadian Regulation SOR/88-66

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SECTION 16: OTHER INFORMATION***Text of phrases under Section 3***

NA

Revision Information**Revision Date:** 2010-12-01**Supersedes edition of:** 2009-06-10**Reason for revision:** Regulation (EC) No. 1272/2008
Compliance***Legend***

NA: Not Applicable

ND: Not Determined

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR
KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE
APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF
THE PROPERTIES OF THE PRODUCT.**