

Safety Data Sheet **SODIUM THIOSULFATE (PENTAHYDRATE) TABLETS**

In accordance with applicable US legislation (HCS 2012)
and Canadian legislation (WHMIS 2015)

VERSION 1
Version date:
8/06/2018

SECTION 1: Identification

1.1. Product identifier

Product Form: Mixture

Product Name: Sodium Thiosulfate (Pentahydrate) Tablets

Product Code: 52.15

Synonyms: STT, EPA Sodium Thio Pill, Product 52.15, PILLS - SOD. 50 mg / 5 mg active, 100 mg / 10 mg active, 100 mg / 20 mg active, 100 mg / 30 mg active, 500 mg / 120 mg active.

1.2. Intended Use of the Product

Use of the substance/mixture: Used as a dechlorinating/de-halogenating agent in water treatment prior to bacterial or organic testing, in a trained and supervised laboratory / industrial setting using standard Good Laboratory/Good Manufacturing procedures. Note: 100 mg tablets 5,000 / Bottle

1.3. Name, Address, and Telephone of the Responsible Party

Name Labplas Inc.
Address 1951, Nobel, Ste-Julie, QC, J3E 1Z6
Telephone Phone: 450-649-7343
Contact email service@labplas.com

1.4. Emergency Telephone Number

Telephone USA National Capital Poison Center: 1 800 222 1222
Canadian Poison Centers:
Alberta: (403) 944-1414
British Columbia: 1-800-567-8911
Manitoba: 1-855-776-4766 or 1-855-7POISON
New Brunswick: No Poison Control Centre - Call 911
Newfoundland and Labrador: (709) 722-1110
Northwest Territories: (867) 669-4100
Nova Scotia: (902) 428-8161 local
Nunavut: (867) 979-7350
Ontario: 1-800-268-9017
Prince Edward Island: 1-800-565-8161
Quebec: 1-800-463-5060
Saskatchewan: 1-800-667-4545
Yukon: (403) 667-8726

SECTION 2: Hazards identification

2.1. Classification of the Substance or Mixture

2.1.2. Hazard classification of the chemical according to GHS (6th edition)

Not classified

2.2. Label elements according to the GHS (6th edition)

No labeling applicable

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

SUBSTANCE	%	GHS-US CLASSIFICATION	Specific concentration limits
Sodium chloride (CAS No) 7647-14-5	82	Not Classified	-
Sodium thiosulfate pentahydrate (CAS No) 10102-17-7	18	Not Classified	-

Full text of H-phrases and EUH-phrases: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Following inhalation	When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
Following skin contact	Remove contaminated clothing. Rinse affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
Following eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.
Following ingestion	Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.
Self-protection of the first aider	No special measures are necessary.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms :	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms After Inhalation:	If tablet is crushed: Prolonged inhalation of dust may cause respiratory irritation
Symptoms After Skin Contact:	If tablet is crushed: Prolonged exposure may cause skin irritation.
Symptoms After Eye Contact:	If tablet is crushed: May cause slight irritation to eyes.
Symptoms After Ingestion:	Ingestion may cause adverse effects.
Chronic Symptoms:	None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing Media

Suitable Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media:	Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard:	Not flammable.
Explosion Hazard:	Product is not explosive.
Reactivity:	Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire:	Exercise caution when fighting any chemical fire.
Firefighting Instructions:	Use water spray or fog for cooling exposed containers.
Protection During Firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Avoid unnecessary release into environment.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal.

6.4. Reference to Other Sections

Safe handling: see section 7

Personal protection equipment: see section

Disposal: see section 13

Additional information: not available

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products: Keep away from: strong acids, strong bases and oxidation agents.

Special Rules on Packaging: 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.

7.3. Specific End Uses

Used as a dechlorinating/de-halogenating agent in water treatment prior to bacterial or organic testing, in a trained and supervised laboratory / industrial setting using standard Good Laboratory/Good Manufacturing procedures.

Note: 100 mg tablets 5,000 / Bottle

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

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SECTION 8: Exposure controls / personal protection

8.2. Exposure Controls

Appropriate Engineering Controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment:

Materials for Protective Clothing:

Hand Protection:

Eye Protection:

Skin and Body Protection:

Respiratory Protection:

Other information:

Additional information:



Gloves

Chemically resistant materials and fabrics.

Wear protective gloves.

In laboratory, medical or industrial settings, or operations in which airborne particulates will be generated, safety glasses with side shields are recommended.

Wear suitable protective clothing.

In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

When using, do not eat, drink or smoke.

Not available

SECTION 9: Physical and chemical Properties

9.1. Information on basic physical and chemical properties

Physical State:	Solid
Appearance:	Round white tablets
Odor:	Odorless
Odor Threshold:	No data available
pH:	7-9
Evaporation Rate:	No data available
Melting Point:	48 °C (118.4 °F)
Freezing Point:	No data available
Boiling Point:	> 100 °C (212 °F)
Flash Point:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Flammability (solid, gas):	No data available
Vapor Pressure:	No data available
Relative Vapor Density at 20 °C:	No data available
Relative Density:	No data available
Specific Gravity:	≈ 2
Solubility:	Water: 79 g/100ml @ 4°C. 680 g/L @ 20°C. Soluble in cold water, hot water
Partition Coefficient: N-Octanol/Water:	No data available
Viscosity:	No data available

9.2. Other Information

No additional information available

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SECTION 10: Stability and Reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Incompatible materials. Moisture.

10.5. Incompatible materials

Oxidizing agent. Sodium nitrate. Halogens. Bromine trifluoride. On contact with acid releases: Sulfur dioxide.

10.6. Hazardous decomposition products

Thermal decomposition generates: Sulfur oxides. Sodium oxides. Carbon oxides (CO, CO₂).

Additional information

Not available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity: Not classified

SODIUM CHLORIDE (7647-14-5)	
LD50 Oral Rat	3 g/kg
LC50 Inhalation Rat	> 42 g/m ³ (Exposure time: 1 h)

Skin Corrosion/Irritation:	Not classified
pH:	7 - 9
Serious Eye Damage/Irritation:	Not classified pH: 7 - 9
Respiratory or Skin Sensitization:	Not classified Germ Cell Mutagenicity: Not classified Carcinogenicity: Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (Single Exposure):	Not classified
Specific Target Organ Toxicity (Repeated Exposure):	Not classified
Aspiration Hazard:	Not classified
Symptoms After Inhalation:	If tablet is crushed: Prolonged inhalation of dust may cause respiratory irritation.
Symptoms After Skin Contact:	If tablet is crushed: Prolonged exposure may cause skin irritation.
Symptoms After Eye Contact:	If tablet is crushed: May cause slight irritation to eyes.
Symptoms After Ingestion:	Ingestion may cause adverse effects.
Chronic Symptoms:	None expected under normal conditions of use.

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - General: Not classified

SODIUM CHLORIDE (7647-14-5)	
LC50 Fish 1	5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow- through])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and Degradability

Ecology - General: Not classified

SODIUM THIOSULFATE (PENTAHYDRATE) TABLETS	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

SODIUM THIOSULFATE (PENTAHYDRATE) TABLETS	
Bioaccumulative Potential	Not established.

SODIUM CHLORIDE (7647-14-5)	
BCF fish 1	[no bioaccumulation]

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other Adverse Effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste Disposal Recommendations:

Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology – Waste Materials:

Avoid unnecessary release into environment.

SECTION 14: Transport information

14.1. UN number

The product is not hazardous according to the applicable transport regulations (ADR / RID / ADN / IMDG / ICAO / ITA).

Not regulated

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SECTION 15: Ecological information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not available

15.2. Chemical Safety Assessment

For this product a chemical safety assessment is not required.

Additional information

Not available

SECTION 16: Other information

Indication of changes

Not applicable as this is the first edition of the safety data sheet.

Abbreviations and acronyms

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on inland waterways.

ADR/RID: European Agreement concerns the International Carriage of Dangerous Goods by Road/ Regulations concerning the international carriage of dangerous goods by rail.

CAS No.: Chemical Abstract Service Number

CLP: Classification, Labelling and Packaging

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods code

DPD: Dangerous Preparations Directive

N°UN: United Nations Number

N°EC: European Commission Number

vPvB: Very Persistent, very Bioaccumulativ

Key literature references and sources for data

No data available

Classification for mixtures and used evaluation method

The classification of the mixture was set based on the GHS 6th edition.

Training advice

Refer to sections 4, 5, 6, 7 and 8 of this safety data sheet.

The information given in this Safety Data Sheet is based on our present knowledge and on european and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.