



PRODUCT: SODIUM THIOSULPHATE (SOTH) REVISION:3 DATED:20/01/14 PAGE 1 OF 5

PRODUCT SPECIFICATION

Product Name	Sodium Thiosulphate
Alternative Name	Sodium Hyposulphite
Product Grade	Photo Grade
Specification Reference	SOTH/3 (10/13)

SALES SPECIFICATION

Purity	99.0% min
Water Insoluble Matter	0.03% max
Sulphides	0.003% max
Fe	0.003% max
pH	6.5 – 9.5

NOTES

Exclusion of Liability

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

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Health and Safety

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.



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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/ UNDERTAKING

1.1 Product Identifier

Trade Name	SODIUM THIOSULPHATE PENTAHYDRATE
Substance Name	Sodium Thiosulphate pentahydrate
CAS No.	10102-17-7
EC No.	231-867-5
Tariff Number	283230
REACH Registration Number	01-2119531537-38-xxxx

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture

Laboratory chemicals, Reducing agents

Recommended restrictions on use

At this moment we have not identified any uses advised against

1.3 Details of the supplier of the safety data sheet

Tennants Distribution Limited
Hazelbottom Road
Cheetham
Manchester
M8 0GR
Tel: 44(0)161 205 4454
Fax: 44(0) 161 203 4298
Email: msds@tennantsdistribution.com

1.4 Emergency telephone number

Tel: 44(0)844 335 0001 (24 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Most important adverse effects

Human Health	See section 11 for toxicological information.
Physical and chemical hazards	See section 9 for physicochemical information.
Potential environmental effects	See section 12 for environmental information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

For Results of PBT and vPvB assessment see section 12.5..

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Non-hazardous component:	Sodium Thiosulphate pentahydrate
Amount	<=100%
CAS No.	10102-17-7
EC No.	231-867-5
REACH Reg. No.	01-2119531537-38-xxxx

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

No special precautions required



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If inhaled

Move to fresh air. If symptoms persist, call a physician.

In case of skin contact

Get medical attention if symptoms occur.

In case of eye contact

Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Continue irrigation until medical attention can be obtained

If swallowed

Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects: See Section 11 for more detailed information on health effects and symptoms

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No further information

5.2 Special hazards arising from the substance or mixture

Heating or fire can release toxic gas. Under fire conditions: sulphur dioxide

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters

In the event of a fire, wear self-contained breathing apparatus. Wear personal protective equipment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment

6.2 Environmental precautions

Environmental precautions

Should not be released into the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods and material for containment and cleaning up

Use mechanical handling equipment. Keep in suitable, closed containers for disposal

Further information

Treat recovered material as described in Section 13

6.4 Reference to other sections

See Section 1 for emergency contact information

See Section 8 for information on personal protective equipment.

See Section 13 for waste treatment information.

6.5 Additional Information

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environment Agency or other appropriate regulatory body.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice

Hygiene measures

Keep away from food, drink and animal feedingstuffs. Smoke, eating and drinking should be prohibited in the application area. Wash hands before breaks, and at the end of the work day. Provide adequate ventilation. Avoid contact with the skin and eyes

7.2 Conditions for safe storage, including any incompatibilities

Advise on protection against fire and explosion

Normal measures for preventive fire protection

Further information on storage conditions

Keep tightly closed in a dry and cool place. Keep away from heat

7.3 Specific end uses



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No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substance with occupational exposure limit values

Component: Sodium Thiosulphate pentahydrate CAS No. 10102-17-7

DNEL/DMEL)

Inhalation (related to anhydrous material): 110.5 mg/m³

8.2 Exposure Controls

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment

Personal Protection

Eye protection

Safety goggles

Hand Protection

Protective gloves complying with EN 374. The glove material has to be impermeable and resistant to the product / the substance / the preparation. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Material: Nitrile rubber

Glove thickness: >= 0.5 mm.

Skin and body protection

Wear suitable protective clothing

Protective measures

The usual precautionary measures for the handling of chemicals have to be observed

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Crystalline
Colour	Colourless
Odour	Odourless
Odour Threshold	No data available
pH	6.5 – 9.5 (100 g/l; 20°C)
Melting point/range	48°C
Boiling point	Not determined
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	The product is not flammable
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Relative density	No data available
Water solubility	Soluble
Partition co-efficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Thermal decomposition	>100°C
Viscosity, dynamic	No data available
Explosivity	Product is not explosive
Oxidising properties	No data available

9.2 Other information

Bulk density 900 – 1.100 kg/m³ (20°C)

10 STABILITY AND REACTIVITY

10.1 Reactivity

Advice: No information available

10.2 Chemical stability

Advice: No decomposition if stored and applied as directed

10.3 Possibility of hazardous reactions

Hazardous reactions: Contact with acids liberates toxic gas

10.4 Conditions to avoid

Thermal decomposition: >100°C

10.5 Incompatible materials



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Materials to avoid: No information available

10.6 Hazardous decomposition products

Hazardous decomposition: Sulphur Dioxide

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Irritation

Skin: Result - Not expected to be a primary skin irritant

Eyes: Result - Not expected to cause eye irritation

Sensitisation

Result No sensitising effect known

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information at this time

12.2 Persistence and degradability

No information at this time

12.3 Bioaccumulative potential

No information at this time

12.4 Mobility in soil

No information at this time

12.5 Results of PBT and vPvB assessment

Result: Not applicable

12.6 Other adverse effects

No information at this time

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Do not let product enter drains

Contaminated packaging

Dispose of as special waste in compliance with local and national regulations

European Waste Catalogue Number

No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer

14. TRANSPORT INFORMATION

Not dangerous goods for ADR/RID/IMDG and IATA

15. REGULATORY INFORMATION

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

No information provided at this time

15.2 Chemical Safety Assessment

No information provided at this time

16. OTHER INFORMATION

The Specification and Safety Data Sheets have been revised throughout.

Revision Date: 20/01/14

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