

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

SODIUM THIOSULPHATE PENTAHYDRATE (CHLORINE REDUCER)

Version 3.0

Print Date 2012/11/12

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MSDS code: **MSTU300**

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : SODIUM THIOSULPHATE PENTAHYDRATE (CHLORINE REDUCER)
Substance name : Sodium thiosulfate pentahydrate
CAS-No. : 10102-17-7
EC-No. : 231-867-5
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
Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK & Ireland
Albion House, Rawdon Park
GB LS19 7XX Leeds Yeadon
Telephone : +44 (0) 113 3879 200
Telefax : +44 (0) 113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
+44 (0) 1865 407333 (N.C.E.C. Culham)

Section 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

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

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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.

Section 3: Composition/information on ingredients

3.1. Substances

Non-hazardous component

Chemical Name	Identification Number	Amount [%]
Sodium thiosulfate pentahydrate	CAS-No. : 10102-17-7	<= 100
	EC-No. : 231-867-5	
	REACH-Reg. No. : 01-2119531537-38-xxxx	

Section 4: First aid measures

4.1. Description of first aid measures

- General advice : No special precautions required.
- 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 : Rinse thoroughly with plenty of water, also under the eyelids.
- 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 : See Section 11 for more detailed information on health effects

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and symptoms.

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.

Section 5: Firefighting 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 information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Heating or fire can release toxic gas. Under fire conditions: sulphur dioxide

5.3. Advice for firefighters

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

Section 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 materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.
 Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on personal protective equipment.

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See Section 13 for waste treatment information.

Section 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. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Provide adequate ventilation. Avoid contact with the skin and the eyes.

7.2. Conditions for safe storage, including any incompatibilities

Advice 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 use(s)

Specific use(s) : No information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.

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

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

Inhalation : 110.5 mg/m³
Related to, anhydrous substance

8.2. Exposure controls

Personal protective equipment

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory equipment.

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Hand protection

Advice : 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

Material : Natural Rubber

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Wear suitable protective clothing.

Protective measures

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

Section 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

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Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapor density	:	no data available
Relative density	:	no data available
Water solubility	:	soluble
Partition coefficient: 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.
Oxidizing properties	:	no data available

9.2. Other information

Bulk density	:	900 - 1,100 kg/m ³ (20 °C)
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Section 10: Stability and reactivity

10.1. Reactivity

Advice	:	No information available.
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10.2. Chemical stability

Advice	:	No decomposition if stored and applied as directed.
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10.3. Possibility of hazardous reactions

Hazardous reactions	:	Contact with acids liberates toxic gas.
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10.4. Conditions to avoid

Thermal decomposition	:	>100 °C
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10.5. Incompatible materials

Materials to avoid	:	No information available.
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10.6. Hazardous decomposition products

Hazardous decomposition	:	sulphur dioxide
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products

Section 11: Toxicological information

11.1. Information on toxicological effects

Component:	Sodium thiosulfate pentahydrate	CAS-No. 10102-17-7
Irritation		
Skin		
Result	: Not expected to be a primary skin irritant.	
Eyes		
Result	: Not expected to cause eye irritation.	
Sensitisation		
Result	: No sensitizing effect known.	

Section 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Component:	Sodium thiosulfate pentahydrate	CAS-No. 10102-17-7
Results of PBT and vPvB assessment		
Result	: not applicable	

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

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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.

Section 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

Section 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical Safety Assessment**

no data available

SODIUM THIOSULPHATE PENTAHYDRATE (CHLORINE REDUCER)**Section 16: Other information****Further information**

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.