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

Product identifier:

Product name: SODIUM THIOSULPHATE
Product No.: S53
Synonyms, Trade Names: Pentahydrate, CAS # 10102-17-7
REACH Registration notes: According to REACH Annex V, paragraph 6; the hydrates of a substance are covered by the registration of the anhydrous material.
CAS-No.: 7772-98-7
EC No.: 231-867-5

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

Uses advised against: None.

Company name: Nexchem Ltd
Unit 1 Underwood Court
Elm Tree Avenue
Glenfield
Leicester
Leicestershire
LE3 8SG
Tel: 0116 2311130
Fax: 0116 2311124
Emergency Tel: +44 (0) 116 2877916 or +44 (0) 7714 303742 (24 Hours)
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (EC 1272/2008):
Physical and Chemical Hazards: Not classified.
Human health: Not classified.
Environment: Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Label elements:

EC No.: 231-867-5
Label In Accordance With (EC) No. 1272/2008
No pictogram required.

Other hazards: Not Classified as PBT/vPvB by current EU criteria. [cont…]
### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances:**

**Product name:** SODIUM THIOSULPHATE

**REACH Registration notes:** According to REACH Annex V, paragraph 6; the hydrates of a substance are covered by the registration of the anhydrous material.

**CAS-No.:** 7772-98-7

**EC No.:** 231-867-5

**Gross Formula:** H2O3S2.2Na

### 4. FIRST AID MEASURES

**Inhalation:**
Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

**Ingestion:**
Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues. DO NOT INDUCE VOMITING!

**Skin contact:**
Remove affected person from source of contamination. Remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention if any discomfort continues.

**Eye contact:**
Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**Most important symptoms and effects, both acute and delayed:**

**General information:** No information available.

**Indication of any immediate medical attention and special treatment needed:**
No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:**
Use fire-extinguishing media appropriate for surrounding materials. This product is not flammable.

**Special hazards arising from the substance or mixture:**

**Specific hazards:** When heated and in case of fire, irritating vapours/gases may be formed.

**Advice for firefighters:**

**Protective equipment for fire-fighters:** Selection of respiratory protection for fire-fighting; follow the general fire precautions indicated in the workplace.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Avoid inhalation of dust. Provide adequate ventilation.

[cont…]
Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up: Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water.

Reference to other sections: For waste disposal, see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Provide good ventilation.

Conditions for safe storage, including any incompatibilities: Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:
Name STD TWA - 8 Hrs STEL - 15 Min Notes
SODIUM THIOSULPHATE OES 4 mg/m3

Ingredient Comments:
OES = Occupational Exposure Standard.

DNEL
Industry Inhalation. Long Term >100 mg/m3

Exposure controls:
Protective equipment:

- Provide adequate ventilation.
- If ventilation is insufficient, suitable respiratory protection must be provided.
- Use suitable protective gloves if risk of skin contact.
- Wear approved safety goggles.
- DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
- Wear apron or protective clothing in case of splashes.
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance: Crystals.

Colour: White.

Odour: Odourless.

Solubility: Soluble in water.

Melting point (°C): 120

Bulk Density: 1.15 kg/m³

pH-Value, Diluted Solution: 6.5 - 9.5

Partition Coefficient (N-Octanol/Water): Not Applicable - Inorganic chemical.

Explosive properties: Not explosive.

Other Flammability: This product is not flammable.

Oxidising properties: Does not meet the criteria for oxidising.

Other information: Mol. Weight 158.1

10. STABILITY AND REACTIVITY

Reactivity: Stable under the prescribed storage conditions.

Chemical stability: Stable under the prescribed storage conditions.

Possibility of hazardous reactions: Not known.

Conditions to avoid: Store in closed original container at temperatures between 0°C and 40°C.

Incompatible materials:

Materials to avoid: Strong acids. Strong oxidising substances.

Hazardous decomposition products: When heated, vapours/gases hazardous to health may be formed.

Oxides of: Sodium. Sulphur.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxic Dose 1 - LD 50: 2700 mg/kg (oral-mouse)

Toxicological information: Not classified.

Inhalation: Dust in high concentrations may irritate the respiratory system.

Ingestion: May cause discomfort if swallowed.

Skin contact: Powder may irritate skin.

Eye contact: Particles in the eyes may cause irritation and smarting.
12. ECOLOGICAL INFORMATION

Ecotoxicity: Not regarded as dangerous for the environment.

Toxicity:
Acute Fish Toxicity: Not considered toxic to fish.

Persistence and degradability:
Degradability: No data available.

Bioaccumulative potential:
Partition coefficient: Not Applicable - Inorganic chemical.

Mobility in soil:
Mobility: The product is soluble in water.

Results of PBT and vPvB assessment: Not Classified as PBT/vPvB by current EU criteria.

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

General: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Road Transport Notes: Not Classified
Rail Transport Notes: Not classified.
Sea Transport Notes: Not classified.
Air Transport Notes: Not classified.

UN number: Not applicable.
UN proper shipping name: Not applicable.
Transport hazard class(es): Not applicable.
Packing group: Not applicable.

Environmental hazards:
Environmentally Hazardous Substance/Marine Pollutant: No.

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
15. REGULATORY INFORMATION

Chemical Safety Assessment: No chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

General information:

The following information is provided to conform with article 13 of the EC Directive on Packaging and Packaging Waste 94/62/EC:

Wherever possible we use returnable packaging and pallets. Details of these are on our Sales Contracts.

For any non-returnable packaging the cost of disposal is at your expense, but we do have a list of reproceses available.

In most cases, but not all, we are able to supply products in returnable packaging but the additional cost of this will be for the customer’s expense. Please ask for details with your specific requirements.

Any products supplied in returnable packaging is clearly marked to this effect.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.