

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

Product identifier:

Product name: SODIUM THIOSULPHATE

Synonyms; trade names: BRISWIM CHLORINE NEUTRALISER, BRISWIM NEUTRALISER

REACH registration notes: Substances contained in this product that are not classified as hazardous have been/will be registered for REACH at the appropriate time.

CAS number: 7772-98-7

EC number: 231-867-5

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

Identified uses: Chemical

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (EC 1272/2008):

Physical hazards: Not classified.

Health hazards: Not classified.

Environment hazards: Not classified.

Classification (67/548/EEC or 1999/45/EC)

Label elements:

EC No.: 231-867-5

Hazard statements: NC Not Classified

Other hazards: This substance is not classified as PBT or vPvB according to current EU criteria.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Product name: SODIUM THIOSULPHATE

REACH Registration notes: Substances contained in this product that are not classified as hazardous have been/will be registered for REACH at the appropriate time.

CAS-No.: 7772-98-7

EC No.: 231-867-5

Composition comments: This product is not classified as hazardous, the information in this datasheet is given for guidance only.

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact: Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Most important symptoms and effects, both acute and delayed:

Skin contact: Skin irritation.

Eye contact: May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor: No specific recommendations. If in doubt, get medical attention promptly or ingestion of this chemical. If in doubt,

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture:

Specific hazards: Oxides of the following substances: Carbon. Sulphur. Hydrogen sulphide (H₂S).

Hazardous combustion products: Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

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Advice for firefighters:

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Avoid inhalation of dust. Provide adequate ventilation.

Environmental precautions: Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

Methods and material for containment and cleaning up:

Methods for cleaning up: Avoid generation and spreading of dust. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Flush contaminated area with plenty of water.

Reference to other sections: For personal protection, see Section 8.

7. HANDLING AND STORAGE

Precautions for safe handling:

Usage precautions: Avoid spilling. Avoid handling which leads to dust formation. Provide adequate ventilation. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities:

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits: Long-term exposure limit (8-hour TWA): WEL 10 mg/m³
WEL = Workplace Exposure Limit

Ingredient comments: No exposure limits known for ingredient(s).

Exposure controls:

Protective equipment:



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Appropriate engineering controls: Provide adequate ventilation.

Eye/face protection: The following protection should be worn: Chemical splash goggles. EN 166

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. EN 374.

Other skin and body protection: Wear rubber apron. Wear rubber footwear.

Hygiene measures: Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection: No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. EN 136/140/145/143/149

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance: Dusty powder or Crystalline solid.

Colour: White/off-white.

Odour threshold: No specific test data are available.

pH: pH (concentrated solution): 7-8 (10% aq)

Melting point: >48°C

Initial boiling point and range: No information available.

Flash point: No information available.

Evaporation rate: No information available.

Evaporation factor: No information available.

Flammability (solid, gas): No information available.

Upper/lower flammability or explosive limits: No information available.

Other flammability: No information available.

Vapour pressure: No information available.

Vapour density: No information available.

Relative density: No information available.

Bulk density: No information available.

Solubility(ies): No information available.

Partition coefficient: No information available.

Auto-ignition temperature: No information available.

Decomposition Temperature: No information available.

Viscosity: No information available.

Explosive properties: No information available.

Explosive under the influence of a flame: Not considered to be explosive.

Oxidising properties: Does not meet the criteria for classification as oxidising.

Other information: None.

Refractive index: No information available.

Particle size: No information available.

Molecular weight: No information available.

Volatility: No information available.

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Saturation concentration: No information available.
Critical temperature: No information available.
Volatile organic compound: No information available.

10. STABILITY AND REACTIVITY

Reactivity: There are no known reactivity hazards associated with this product.

Chemical stability: Stable at normal ambient temperatures.

Possibility of hazardous reactions: Not known.

Conditions to avoid: Avoid excessive heat for prolonged periods of time.

Incompatible materials:

Materials to avoid: Strong oxidising agents.

Hazardous decomposition products: Oxides of the following substances: Carbon. Sulphur. Hydrogen sulphide (H₂S).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Skin corrosion/irritation:

Animal data: No information available.

Serious eye damage/irritation: No information available.

Respiratory sensitisation: No information available.

Skin sensitisation: No information available.

Germ cell mutagenicity:

Genotoxicity - in vitro: No information available.

Carcinogenicity: No information available.

Reproductive toxicity – fertility: No information available.

Specific target organ toxicity - single exposure:

STOT - single exposure: No information available.

Specific target organ toxicity - repeated exposure:

STOT - repeated exposure: No information available.

Aspiration hazard: No information available.

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Inhalation:	Dust in high concentrations may irritate the respiratory system.
Ingestion:	No harmful effects expected from quantities likely to be ingested by accident.
Skin contact:	Skin irritation should not occur when used as recommended.
Eye contact:	Particles in the eyes may cause irritation and smarting.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Not regarded as dangerous for the environment. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
Toxicity:	Not considered toxic to fish.
Persistence and degradability:	The product is biodegradable.
Bioaccumulative potential:	No data available on bioaccumulation.
Partition coefficient:	No information available.
Mobility in soil:	
Mobility:	Not determined.
Results of PBT and vPvB assessment:	This product does not contain any substances classified as PBT or vPvB.
Other adverse effects:	Not applicable.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	
General information:	Waste should be treated as controlled waste.
Disposal methods:	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. TRANSPORT INFORMATION

General:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
UN number:	No information required.
UN proper shipping name:	No information required.
Transport hazard class(es):	No information required.
Packing group:	No information required.
Environmental hazards:	
Environmentally hazardous substance/marine pollutant:	No.

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Special precautions for user: No information required.

Transport in bulk according to Annex II of MARPOL and the IBC Code:

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: No information required.

15. REGULATORY INFORMATION

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

EU legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

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

Inventories:

EU - EINECS/ELINCS: All the ingredients are listed or exempt.

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

Abbreviations and acronyms used in the safety data sheet:

ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

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vPvB: Very Persistent and Very Bioaccumulative.

IARC: International Agency for Research on Cancer.

MARPOL 73/78: International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.

cATpE: Converted Acute Toxicity Point Estimate.

BCF: Bioconcentration Factor.

BOD: Biochemical Oxygen Demand.

EC₅₀: 50% of maximal Effective Concentration.

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level.

NOEC: No Observed Effect Concentration.

LOEC: Lowest Observed Effect Concentration.

DMEL: Derived Minimal Effect Level.

Classification abbreviations and acronyms: Acute Tox. = Acute toxicity

Aquatic Acute = Hazardous to the aquatic environment (acute)

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

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.