

SAFETY DATA SHEET
Sodium Hydrosulphite

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Issued: 16/01/2012
Revision No: 1

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

Product name: SODIUM HYDROSULPHITE.
CAS number: 7775-14-6
Synonyms: 'HYDROS'
Company name: Nexchem Ltd
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2. HAZARDS IDENTIFICATION

Label elements under CLP:

Hazard statements: H242: Heating may cause a fire.
H302: Harmful if swallowed.

Signal words: Danger

Hazard pictograms: GHS02: Flame
GHS07: Exclamation mark



Precautionary statements: P234: Keep only in original container.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P330: Rinse mouth.
P420: Store away from other materials.

Other hazards: In decomposition toxic gases and fire are produced (sulphur dioxide). Irritating to eyes.
Irritating to respiratory system. Nausea, sickness due to ingestion. Environmental hazards – it consumes oxygen and generates sodium sulphite

PBT: This substance is not identified as a PBT substance.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity: SODIUM HYDROSULPHITE.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with water followed by soap and water. Seek medical advice.

Eye contact: Bathe the eye with running water for 15 minutes. Ensure that the eye is totally clear of contamination. Transfer to hospital for specialist examination.

Ingestion: Drink milk, water or solution containing 2% Sodium bicarbonate; after 4 hours administrate Magnesium.

Inhalation: In case of decomposition gas (SO₂) inhalation, remove from polluted area. Administrate oxygen, and seek medical advice.

Most important symptoms and effects, both acute and delayed:

Skin contact: Irritation or pain may occur at the site of contact. Blistering may occur.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. There may be loss of consciousness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Indication of any immediate medical attention and special treatment needed:

Immediate/special treatment: Not applicable.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Large amounts of water, to cool and dissolve the product. Dry chemical powder. Dry earth or dry sand.

Special hazards arising from the substance or mixture:

Exposure hazards: In combustion and decomposition Sulphur dioxide is generated.

Advice for fire-fighters: Gas mask with yellow filter for Sulphur dioxide, in more severe cases an oxygen mask.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

Environmental precautions: Do not discharge into drains or rivers. Do not discharge to soil. If leakage to land/water does occur inform police.

Clean-up procedures: Wash the spillage site with large amounts of water. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Humid or wet product: dissolve in an alkaline solution, send solution for oxidising treatment.

Reference to other sections: Refer to section 8 of SDS.

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7. HANDLING AND STORAGE

Precautions for safe handling:

Handling requirements: Ensure there is exhaust ventilation of the area. Do not handle in a confined space.

Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in cool, well-ventilated area. Keep away from sources of ignition. Keep container tightly closed. Away from acids, heat and easily flammable materials (paper, rags and wood). Carefully re-close any empty drums. Avoid contact with water or humidity.

Suitable packaging: No specific requirements but must be kept in a tightly sealed container. Labelling should be evident with danger and first aid instructions.

Specific end use(s): No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure controls:

Engineering measures: Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: Dust mask.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Face-shield.

Skin protection: Protective clothing with elasticated cuffs and closed neck.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

State: Powder

Colour: White

Odour: Pungent sulphur dioxide smell.

Solubility in water: Soluble

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions:

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid: Moist air. Humidity. Heat.

Incompatible materials:

Materials to avoid: Acids. Water. Oxidising agents.

Hazardous decomposition products: Sulphur dioxide.

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicity values:

Route	Species	Test	Value	Units
SKN	RAT	LD50	2000	mg/kg
ORL	RAT	LD50	1500	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data

Symptoms / routes of exposure:

Skin contact:	Irritation or pain may occur at the site of contact. Blistering may occur.
Eye contact:	There may be pain and redness. The eyes may water profusely. There may be severe pain.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation:	There may be a feeling of tightness in the chest with shortness of breath. There may be loss of consciousness.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

12. ECOLOGICAL INFORMATION

Toxicity:

Persistence and degradability: Anaerobically biodegradable.

Bioaccumulative potential:

Mobility in soil: Volatile.

Results of PBT and vPvB assessment:

PBT identification: This substance is not identified as a PBT substance.

Other adverse effects: Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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14. TRANSPORT INFORMATION

UN number: UN1384
UN proper shipping name: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)
Transport hazard class(es): 4.2

Packing group: II
Environmentally hazardous: No **Marine pollutant:** No

Special precautions for user
Special precautions: No special precautions.
Tunnel code: D/E
Transport category: 2

15. REGULATORY INFORMATION

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H242: Heating may cause a fire.
H302: Harmful if swallowed.
R7: May cause fire.
R22: Harmful if swallowed.
R31: Contact with acids liberates toxic gas.

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.