

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

Product Identifier:

Chemical Name (EINECS): Anhydrous Sodium Sulphate
Chemical Formula: Na₂SO₄
Molecular Weight: 142.04
CAS Number: 7757-82-6
EINECS Number: 231-820-9
REACH Registration Number: Exempt

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

Identified use(s):

Manufacture of detergents: Filling agent
Manufacture of glass: Fining agent
Manufacture of kraft paper pulp: Raw material
Other: Animal feed
Enzymes
Steel-making processes
Textile industry

Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: In accordance with Regulation (EC) 1272/2008 (CLP), this product is not considered as a Hazardous Substance.

Label elements: The substance does not require labelling as dangerous in accordance with the Regulation (EC) 1272/2008 (CLP).

Other hazards: No other risk is specified.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name:	Anhydrous sodium sulphate
Chemical formula:	Na ₂ SO ₄
Molecular weight:	142.04
CAS No.:	7757-82-6
EINECS No:	231-820-9

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation:	Remove victim from exposure and into fresh air.
Skin contact:	No particular instructions have been specified.
Eye contact:	Wash immediately with abundant water for at least 15 minutes, keeping eyes well open and providing medical attention.
Ingestion:	Rinse mouth with water.

Most important symptoms and effects, both acute and delayed:

Laxative effect in large doses. In case of discomfort, seek medical attention.

Indication of any immediate medical attention and special treatment needed: No further information.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	All possible extinguishing media can be used.
Special hazards arising from the substance or mixture:	The product is not considered as flammable. But under the effects of heat, it may emit toxic gases.
Advice for fire-fighters:	Protection against dust, eye protection, boots, gloves.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes. For more information, see Section 8: "Exposure Controls / Personal Protection". Contain the contaminated area and restrict access to unauthorised persons.

Environmental precautions: Avoid undiluted spillage penetrating the sewer system, in basements or ditches and in the water flows. If spillage leads to drains or flows, dilute with large amounts of water

Methods and material for containment and cleaning up:

Recovery:	Collect the product using suitable media (broom, vacuum cleaner).
Cleaning:	Place the spilt product in a suitable container and label it correctly.
Disposal:	Disposal of the material or solid waste at an authorised centre.

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

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7. HANDLING AND STORAGE

Precautions for safe handling:

Technical measures:	No particular technical intervention is required.
Precautions:	Avoid the formation or dispersion of dust into the atmosphere.
Usage recommendations:	Respect the usage instructions.

Conditions for safe storage, including any incompatibilities:

Technical measures:	Maintain the containers sealed and stored in dry areas.
Incompatible substances:	See Point 10 - Stability / Reactivity.
Packaging conditions:	The product can be stored in common commercial containers.
Maximum quantities that can be stored:	Not applicable.
Packaging materials:	Plastic materials (polyethylene, polypropylene).
Specific end use(s):	Consult the technical guidelines for the use of the substance/mixture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

TLV (Threshold Limit Value): None

Exposure controls:

Technical measures:	Localise the source of dust emission. Ensure that the workspace is well ventilated.
Collective emergency measures:	Emergency eyebath.
Individual protection:	
Respiratory protection:	Anti-dust filter mask.
Eye protection:	Safety goggles.
Environmental exposure controls:	No applicable legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Solid. Powder or granules
Colour:	White
Odour:	Odourless
pH in water solution:	8 at 20°C, solution at 10%
Boiling point/boiling range:	1429°C (under 1013 hPa)
Flash point:	Not applicable
Explosive properties:	Non-explosive according to EC criteria
Combustion properties:	Non-combustible according to EC criteria
Decomposition properties:	1200°C
Relative density:	2.66 (d20/4) g/cm ³ (20°C)
Bulk density:	1.45 – 1.65 kg/dm ³ (non-compacted product)
Solubility:	In water: 161 g/l at 20°C In organic solvents: insoluble in: alcohol (ethanol), glycol
Coefficient n-octanol/water:	Log Kow = -3 at 20°C
Hygroscopicity:	Hygroscopic product

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10. STABILITY AND REACTIVITY

- Reactivity:** No specific data.
- Chemical stability:** Stable at ambient temperatures and in normal usage conditions.
- Possibility of hazardous reactions:** No dangerous reaction is known under normal conditions of use.
- Conditions to avoid:** Keep away from moisture to prevent caking.
- Incompatible materials:** No specific data.
- Hazardous decomposition products:** Emits toxic gases through thermal pyrolysis decomposition (sulphur oxides).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

- Acute Toxicity:** It is neither considered toxic nor noxious DL50 oral (rat): 10000 mg/kg.
- Irritation:** May cause slight ocular and nasal mucous irritation by mechanical effect.
- CMT (carcinogenic, mutagenic and toxic to reproduction):** No such effects described.
- Further information:** No data available.

12. ECOLOGICAL INFORMATION

Toxicity:

- CE50 (Daphnia magna) / 48 hours:** 4580 mg/l.
- WGK or WHC (Water Hazard Class):** Class 1. Slightly hazardous for water, harmless for marine environment.

- Persistence and degradability:** Anaerobic reduction by sulphate-reducing bacteria.
In the presence of organic substances, sodium sulphate is reduced through the sulphur cycle.

- Bio accumulative potential:** Non-bio accumulable.

- Mobility in soil:** Easily penetrates the soil due to the effects of rain.

- Results of PBT and vPvB assessment:** The product does not meet the criteria to be considered PBT or vPvB.

- Endocrine disrupting properties:** No endocrine disrupting properties described.

- Other adverse effects:** No further information.

13. DISPOSAL CONSIDERATIONS

- Waste treatment methods:** Deposit in an authorised centre for collection of Non-Hazardous Industrial Waste.

- NOTES:** The user must pay attention to the possible existence of local instructions and regulations related to suitable means of disposal.

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14. TRANSPORT INFORMATION

ADR/RID/IMDG/IATA: Not classified as dangerous goods.

15. REGULATORY INFORMATION

Chemical safety assessment: Not a chemical safety assessment for this substance.

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

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.