

SAFETY DATA SHEET
Sodium Sulphate

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Issued: 02/11/2020
Revision No: 3

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

Product Identifier:

Chemical Name (EINECS): Sodium Sulphate
Chemical Formula: Na₂ SO₄
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 paper: Raw material
Other: Animal food
Enzymes
Steel-making processes
Textile industry

Uses advised against:

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
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: Na₂ SO₄
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 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: Respiratory protection, eye protection, boots and gloves.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes.
Contain the contaminated area and restrict access to unauthorised persons.

Environmental precautions: Prevent spillage from entering the sewer system or in the water flows. If not possible, dilute with 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:	Keep 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):	No additional recommendations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

TLV (Threshold Limit Value):	None.
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Exposure controls:

Technical Measures:	Localise the source of dust emission. Ensure that the workspace is well ventilated.
Collection emergency equipment:	Emergency eye bath.
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%
Fusion point:	884°C
Boiling point:	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/cm3 (20°C)
Bulk density:	1.45 – 1.65 kg/dm3 (non-compacted product)
Solubility:	In water: 161 g/l at 20°C In ethanol: Insoluble In glycol: Insoluble In organic solvents: insoluble in: alcohol (ethanol), glycol

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Distribution: Coefficient n-octanol/ water: Log Kow = -3 at 20oC

Hygroscopicity: Hygroscopic product

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 oxide).

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.

Local Effects: Dusty product. May cause slight irritation to nasal mucous.

CMR effects: No Carcinogenic, Mutagenic, Reprotoxic effects described.

Further information: No data available.

12. ECOLOGICAL INFORMATION

Toxicity: EC50 (Daphnia magna) / 48 hours: 4580 mg/l.
WGK or WHC (Water Hazard Class): Class 1
Slightly hazardous for water.

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-bioaccumulable.

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.

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

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

REACH regulation: At this moment, natural Anhydrous Sodium Sulphate is exempted from the obligation to register in accordance with article 2 (7) (b) of the regulation regarding Registration, Evaluation and Authorization of Chemicals (REACH), due to is a substance covered by Annex V point 7: "The following substances which occur in nature, if they are not chemically modified: minerals, ores, ore concentrates, cement clinker, natural gas, liquefied petroleum gas, natural gas condensate, process gases and components thereof, crude oil, coal, coke."

Defined substances which occur in nature in Article 3, point 39 as: "a naturally occurring substance as such, unprocessed or processed only by manual, mechanical or gravitational means, by dissolution in water, by flotation, by extraction with water, by steam distillation or by heating solely to remove water, or which is extracted from air by any means."

Then, due to the fact that the manufacturer is a producer who extracts a mineral and purifies it through leaching and crystallization processes, it considers that it is exempted and, therefore, it is not forced its registration.

Registrations: Recorded with the MITI Register.
Recorded with the AICS Register Registered in TSCA.
Recorded in the Canadian register (CEPA DLS) Registered in the Korean inventory.

Chemical safety assessment: A chemical safety assessment has not been carried out 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.