

 MINERA DE SANTA MARTA, S.A.	SAFETY DATA SHEET SODIUM SULPHATE According to Regulation (EC) No 1907/2006, amended by Regulation (EU) 2020/878	VERSION 10
		07/10/2022

1 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product identifier

Name of the Product: **SODIUM SULPHATE**

Relevant identified uses of the substance or of the mixture and uses which are not advised

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 information sheet

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2 IDENTIFICATION OF THE HAZARDS

Classification of the substance: 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

3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical name: Anhydrous sodium sulphate

Chemical formula: Na₂SO₄

Molecular weight: 142.04

CAS Register N°: 7757-82-6

EINECS N°: 231-820-9

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4 FIRST AID MEASURES

Description of first aid measures

Inhaled:	Remove victim from exposure and into fresh air.
Skin contact:	No particular instructions have been specified.
Eye contact:	Wash immediately with abundant water during 15 minutes keeping eyes well open and providing medical attention.
Ingested:	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 other indication is required.

5 FIREFIGHTING 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 firefighters	Respiratory protection, eye protection, boots and gloves.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protection equipment and emergency procedures:	Avoid contact with eyes. Contain the contaminated area and restrict access to unauthorized 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 authorized centre.
Reference to other sections	For more information, see Section 8

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 and 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

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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

Physical state:	Solid
Appearance:	Powder or granules
Colour:	White
Odour:	Odourless

Other information

pH aqueous 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 temperature:	1200° C
Relative density:	2.66 (d 20/4) 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 ethanol:	Insoluble
In glycol:	Insoluble
Distribution coefficient n-octanol/water:	Log Kow = -3 at 20°C
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 oxides)

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11 **TOXICOLOGICAL INFORMATION**

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:	It is neither considered toxic nor noxious. DL ₅₀ oral (rat): 10000 mg/kg.
Irritation:	May cause slight ocular and nasal mucous irritation by mechanical effect.
CMR effects	No Carcinogenic, Mutagenic, Reprotoxic effects described

Information on other hazards No other hazards described

12 **ECOLOGICAL INFORMATION**

Toxicity

Aquatic toxicity	CE ₅₀ (Daphnia magna) / 48 hours: 4580 mg/l.
Classification of Substances	WGK (Water Hazard Class): Class 1
Hazardous to Waters (VwVwS)	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.

Bioaccumulative potential Non-bioaccumulable

Mobility in the 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 Other effects have not been described.

13 **DISPOSAL CONSIDERATIONS**

Waste treatment methods Deposit in an authorized 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.

14 **TRANSPORT INFORMATION**

By Land (RID/ADR): Not applicable	By Sea (OMI/IMDG): Not applicable
By Air (OACI/IATA): Not applicable	DOT regulations: non-hazardous substance for transport

UN number Not applicable

UN proper shipping name Not applicable

Transport hazard class(es) Not applicable

Packing group Not applicable

Environmental hazards Not applicable

Special precautions for user Not applicable

Maritime transport in bulk according to IMO instruments Not applicable

NOTES

The applicable regulations on this matter are in force at the date of printing this data sheet.

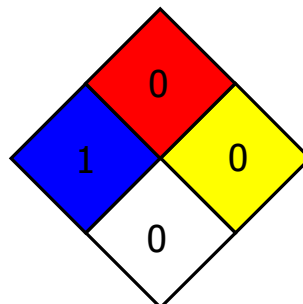
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15 REGULATORY INFORMATION

Regulations and legislation on the subject of safety, health and the environment

Classification of chemical products according to NFPA (National Fire Protection Association)

HEALTH
FLAMMABILITY
REACTIVITY
OTHERS



AVERAGE DANGERS:

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = LOW
0 = INSIGNIFICANT

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 Minera de Santa Marta, S.A. 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.

Chemical safety assessment

Not a chemical safety assessment for this substance

16 OTHER INFORMATION

Version 10 of Safety Information Sheet

Adaptation to the Regulation (EU) 2020/878

Registrations in sodium sulphate registers

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

NOTES

If used for other purposes than those defined above, other risks may be present over and above specified in this document. Users must know and apply all applicable regulations.

All the information included herein is based on current knowledge regarding the product in question at the time of printing this document.

This information must not be considered as decisive.

This information does not exempt users from taking all forms of precaution not mentioned above and related to the use of the product, for which they are solely responsible.