

	MATERIAL SAFETY DATA SHEET PRECAUTIONS FOR SAFE HANDLING According to CE Regulation 1907/2006 of the European Parliament and European Council (16 Points)	VERSION 3
		12/05/2008

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 Identification of the substance or preparation:

Name of the Product: **SODIUM SULPHATE**

1.2 Use of the substance or preparation:

Uses (not a comprehensive list):	Description of real action:
Manufacture of detergents:	Filling agent
Glass:	Raw Material
Paper:	Manufacture of kraft paper pulp
Other	

1.3 Identification of the company:

Producer:

Name:	MINERA DE SANTA MARTA, S.A.
Address:	Paseo Independencia, 21- 3º 50001 Zaragoza Spain
Telephone:	(+ 34) 976 216 129
Fax:	(+ 34) 901 020 266

1.4 Emergency telephone number:

National Toxicology Institute of Madrid (+34) 915 620 420

2 IDENTIFICATION OF THE HAZARDS / RISKS

Harmful effects to health:	No particular risk is present provided that the standard industrial hygiene regulations are followed.
Other details:	Laxative effect when ingested in large quantities.
Physical and chemical / Fire or explosion risks:	No risk of fire or explosion is present.
Specific risks / Classification:	In accordance with Directive 1999/45/CE, this product is not considered as a "Hazardous Substance" .

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name:	Anhydrous sodium sulphate
Chemical formula:	Na ₂ SO ₄
Molecular weight:	142.04
CAS Register N°:	7757-82-6
EINECS N°:	231-820-9

4 FIRST AID MEASURES

Inhaled:	Remove victim from exposure and into fresh air
Skin contact:	No particular instructions have been specified, but we would

Eye contact: recommend removal by washing with soap and water
Wash IMMEDIATELY with copious amounts of water for 15 minutes whilst keeping the eyes open. Seek medical advice.

Ingested: Rinse mouth with water. Laxative effect in large quantities. Seek medical advice if symptoms worsen.

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media: All possible extinguishing media can be used.

Counter-indications: None.

Specific hazards: According to EEC criteria, the product is not considered as flammable. However, in the event of a fire, certain risks may arise. Under the effects of heat, it emits toxic gases.

Fire-fighting Personal Protection Equipment: Protection against dust, eye protection, boots, gloves.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: 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 protection precautions: The product presents no particular risks for the environment

Cleaning methods:

- Recovery: Collect the product using suitable media (broom, vacuum cleaner...)
Place the spilt product in a suitable container and label it correctly.
- Cleaning and decontamination: Wash the contaminated area with copious amounts of water
- Disposal: Disposal of the material or solid waste at an authorised centre.

7 HANDLING AND STORAGE:

7.1 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

7.2 Storage:

Technical measures: No specific technical measures are required. Storage areas must be kept dry

Storage conditions:

- Recommendations: Store in a dry place protected from the elements
- 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:

- Recommendations: Lined steel. Plastic materials (polyethylene, polypropylene)
- Counter-indications: None known

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Maximum exposure limits:

MEL (Maximum Exposure Limit): None

8.2 Exposure controls:

Professional 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: Respiratory breathing apparatus with anti-dust filter
 - Eye protection: Safety goggles

Environmental exposure controls: No applicable legislation

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance:

Physical state: Solid
Appearance: Powder or granules
Colour: White
Odour: Odourless
pH: 5.5 – 9.5 (water soluble at 10 g/l)

9.2 Characteristics

Fusion point: 884° C
Boiling point: 1429° C (under 1013 hPa)
Critical temperature: 365° C
Decomposition temperature: 1200° C
Flash point: Not applicable
Combustion properties: Non-combustible according to EEC criteria
Explosion limits in the air: Not applicable
Relative density (water-1): 2.66 (d 20/4) g/cm³ (20°C)
Apparent density: 1.3 – 1.6 Kg/dm³ (non-compacted product)
Specific gravity: 2.68 Kg/dm³ at 20° C
Solubility:

- In water: 193 g/l at 20° C
488 g/l at 40° C
452 g/l at 60° C
- In organic solvents: Insoluble in: -alcohol (ethanol)
-glycol

Hygroscopicity: Highly hygroscopic product

10 STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures and in normal usage conditions
Conditions that should be avoided: No known hazardous reaction in normal usage conditions
Materials that should be avoided: No known hazardous reaction with common products
Hazardous decomposition products: Emits toxic gases through thermal pyrolysis decomposition. (Sulphur oxide)

11 TOXICOLOGICAL INFORMATION

Acute toxicity: It is neither considered toxic nor noxious

DL₅₀ oral (rat): 10000 mg/kg.
Acute symptoms: Diarrhoea.
Local effects: Dusty product. May cause slight irritation to nasal mucous.
CMT (carcinogenic, mutagenic and toxic to reproduction): No such effects described

12 ECOLOGICAL INFORMATION (data of an ecological nature)

Ecotoxicity:
- Effects on the aquatic environment: CE₅₀ (Daphnia magna) / 48 hours: 4580 mg/l.
- Classification according to the commission for the assessment of hazardous substance for water (KBwS): WGK or WHC (Water Hazard Class): Class 1 Slightly hazardous for water
Mobility: Easily penetrates the soil due to the effects of rain.
Persistence and degradability: Anaerobic reduction by sulphate-reducing bacteria. In the presence of organic substances, sodium sulphate is reduced through the sulphur cycle.
Bioaccumulation potential: Non-bioaccumulable

13 CONSIDERATIONS REGARDING DISPOSAL

Destruction / Disposal of the product: Dispose of at a centre authorised for the collection of waste
Decontamination / Cleaning Use water to wash the multi-purpose tanks used for road-rail transportation.

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: Railway/Road (RID/ADR): Not applicable
By Sea (OMI/IMDG): Not applicable
By Air (OACI/IATA): Not applicable

NOTES:

The applicable regulations on this matter are those in force at the time of printing this data sheet. However, given the possible evolution of regulations regarding the transport of hazardous goods, it is advised to consult validity with the Commercial Department of Minera de Santa Marta.

15 REGULATORY INFORMATION

Label:

Obligation for hazardous substances: Not applicable
Description of the product: Name of the product (as appears in Point 1)
EEC N°: Does not appear on the EEC list of hazardous substances (section 1 of Directive 67/548/EEC and subsequent amendments).

NOTES:

The regulatory information contained in this section solely refers to the most important instructions exclusively applicable to the product contained in this safety data sheet. There may be additional provisions that users are required to take into consideration.

16 OTHER INFORMATION

Information on the product:

Register numbers: Registered in EINECS (N° EINECS: a 231-820-9)
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

If used for other purposes than those defined above, other risks may be present over and above specified in this document.

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

According to legislation, users must know and apply all applicable regulations.

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.