

SAFETY DATA SHEET

according to 2012 OSHA Hazard Communication Standard (29CFR 1910.1200) as amended



Sodium sulfate anhydrous

Creation date 01st February 2024

Revision date

Version

1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Chemical name

Sodium sulfate anhydrous

CAS number

Sodium sulfate

EC (EINECS) number

7757-82-6

Registration number

231-820-9

01-2119519226-43-0000

Recommended use

Laboratory chemical substances. Food supplement. Active pharmaceutical substance. Raw material for the production of pure compounds.

Substance uses advised against

Details of the supplier of the safety data sheet

Supplier

Name or trade name

Macco Organiques, s.r.o.

Address

Zahradní 1938/46c, Bruntál 1, 792 01

Czech Republic

Identification number (CRN)

26819210

VAT Reg No

CZ26819210

Phone

+420 555 530 300

E-mail

macco@macco.cz

Emergency telephone number

CHEMTREC®, Inside the USA: 800-424-9300

CHEMTREC®, Outside the USA: 001-703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture

This chemical **is not considered hazardous** by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Most serious adverse physico-chemical effects

Not specified.

Most serious adverse effects on human health and the environment

Not specified.

Label elements

none required

Hazard not otherwise classified (HNOC)

None identified

SECTION 3: Composition/information on ingredients

Identification numbers	Substance name	Content in % weight	Classification according to 29CFR 1910.1200	Note
CAS: 7757-82-6 EC: 231-820-9 Registration number: 01-2119519226-43-0000	substance main component Sodium sulfate	99-100	not classified as dangerous	

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SECTION 4: First aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. In the event of unconsciousness, do not provide food by mouth.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

Skin contact

Remove contaminated clothes. And wash it before reuse. Wash the affected area with plenty of water, lukewarm if possible. Provide medical treatment if skin irritation persists.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Provide medical treatment, specialized if possible.

Ingestion

Rinse out the mouth with water and provide 2-5 dL of water. DO NOT INDUCE VOMITING! In the event of issues, find medical help.

Most important symptoms and effects, both acute and delayed

Inhalation

May cause respiratory irritation. **Skin**

contact

Not expected.

Eye contact

Possible irritation.

Ingestion

Not expected.

Notes to Physician

Symptomatic treatment.

SECTION 5: Firefighting measures

Suitable extinguishing media

Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Water - full jet.

Special hazards arising from the substance or mixture

At high temperatures, decomposition occurs to form sulfur dioxide.

Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8. Use personal protective equipment for work. Do not inhale dust. Provide sufficient ventilation. Prevent contact with skin and eyes.

Environmental precautions

In the event of substantial pollution, contact respective authorities and wastewater treatment plants. Prevent contamination of the soil and entering surface or ground water.

Methods and material for containment and cleaning up

Place the spilled product mechanically in the properly closed containers and dispose of it according to the section 13. After removal of the product, wash the contaminated site with plenty of water. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies.

Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as per Section 8. Do not eat, drink or smoke when using this product. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Observe valid legal regulations on safety and health protection.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Keep only in original packaging.

Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Sodium sulfate		PNEC	
Route of exposure	Value	Value determination	Source
Drinking water	11.09 mg/l		
Water (intermittent release)	17.66 mg/l		
Marine water	1.109 mg/l		
Microorganisms in sewage treatment	800 mg/l		
Freshwater sediment	40.2 mg/kg of dry substance of sediment		
Sea sediments	4.02 mg/kg of dry substance of sediment		
Soil (agricultural)	1.54 mg/kg of dry substance of soil		

Appropriate engineering controls

Good ventilation, showers, eyewash station

Personal protective equipment

Do not eat, drink and smoke during work. Provide showers and eye wash possibility. Follow the usual measures intended for health protection at work and especially for good ventilation. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

When handling in long-term or repeatedly, use protective gloves. EN ISO 374-1. Other protection: protective workwear.

Respiratory protection

Half-mask with anti-dust filter when the exposition limits of substances are exceeded or in the location with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.

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SECTION 9: Physical and chemical properties

Appearance	
Physical state	solid, crystalline powder
Colour	white
Odour	without fragrance
pH	7 (5% solution at 20 °C)
Melting point/freezing point	880 °C
Boiling point or initial boiling point and boiling range	not determined
Flash point	not applicable
Evaporation rate	not applicable
Flammability	non-flammable
Upper and lower explosion limit	not applicable
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	2.68
Solubility in water	49.56g / 100g H2O 33°C
Partition coefficient n-octanol/water (log value)	-4.38
Auto-ignition temperature	not applicable
Decomposition temperature	not determined
Kinematic viscosity	not applicable
Oxidising properties	It is not oxidising.

SECTION 10: Stability and reactivity

Reactivity

The substance is non-flammable.

Chemical stability

The product is stable under normal conditions.

Possibility of hazardous reactions

Unknown.

Conditions to avoid

The product is stable and no degradation occurs under normal use.

Incompatible materials

Strong reducing / oxidizing agents. Strong acids. Aluminium. Magnesium.

Hazardous decomposition products

Not developed under normal uses. At high temperatures, irritating or toxic gases may be formed.

SECTION 11: Toxicological information

Acute toxicity

Based on available data the classification criteria are not met.

Sodium sulfate						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 423	>2000 mg/kg bw		Rat	F
Inhalation (dust/mist)	LC ₅₀	OECD 436	>2.4 mg/l of air	4 hours	Rat	F/M

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Sodium sulfate				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Not irritating	OECD 404	4 hours	Rabbit

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Serious eye damage/irritation

Based on available data the classification criteria are not met.

Sodium sulfate

Route of exposure	Result	Method	Exposure time	Species
Eye	Not irritating	EU B.5	24 hours	Rabbit

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Sodium sulfate

Route of exposure	Result	Method	Exposure time	Species	Sex
Skin	Not sensitizing	OECD 406		Pig	M

Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.

IARC - not listed; NTP - not listed; ACGIH - not listed; OSHA - not listed; Mexico - not listed

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Sodium sulfate

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Oral	NOEL	OECD 421	1000 mg/kg bw/day	4 weeks (7 days/week)	No effect	Rat	F/M

Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

Endocrine disruptor information

The substance does not have endocrine disrupting properties.

SECTION 12: Ecological information

Ecotoxicity

Based on available data the classification criteria are not met.

Acute toxicity

Sodium sulfate

Parameter	Value	Exposure time	Species	Environment
LC ₅₀	7960 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water
LC ₅₀	4736 mg/l		Daphnia (Daphnia magna)	Fresh water
EC ₅₀	1900 mg/l	120 hours	Algae and other aquatic plants	Fresh water
NOEC	8 g/l	37 days	Aquatic microorganisms	Activated sludge

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Persistence and degradability

No data available for the substance.

Bioaccumulative potential

No data available for the substance.

Mobility in soil

No data available for the substance.

Other adverse effects

Not available.

SECTION 13: Disposal considerations

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

SECTION 14: Transport information

UN number or ID number	not subject to transport regulations
UN proper shipping name	not relevant
Transport hazard class(es)	not relevant
Packing group	not relevant
Environmental hazards	not relevant
Special precautions for user	Reference in the Sections 4 to 8.
Maritime transport in bulk according to IMO instruments	not relevant

SECTION 15: Regulatory information

United States of America Inventory

TSCA*	listed
TSCA* Inventory notification - Active-Inactive	active
TSCA* - EPA Regulatory Flags	not listed

U.S. Federal Regulations

SARA 311/312 Hazard Categories	See section 2 for more information
SARA 313 Reportable Ingredients, 40CFR372	Not Listed
CWA (Clean Water Act), section 307/311:	Not Listed
CERCLA (Comprehensive Environmental Response Compensation and Liability Act) 40CFR302.4:	There is no listed reportable quantity for this product.

U.S. State Regulations

California Proposition 65	Not Listed
Right-to-Know Regulations	Not Listed

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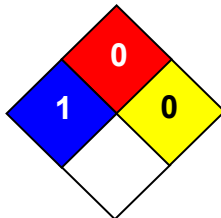
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SECTION 16: Other information

NFPA (National Fire Protection Association)

Health	1
Flammability	0
Reactivity	0
Special Hazard	None



4: Extreme, 3: High, 2: Moderate, 1: Slight, 0: Insignificant; OX: Oxidiser, W: Water Reactives, SA: Simple Asphyxiants

Competent person responsible for the safety data sheet

Name

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Creation Date

01-Feb-2024

Revision Date

Revision Summary

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

End of SDS

