

SAFETY DATA SHEET

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



Magnesium sulfate heptahydrate

Creation date 01st February 2024
Revision date Version 1

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

Product identifier

Magnesium sulfate heptahydrate
Chemical name Magnesium sulfate heptahydrate
CAS number 10034-99-8
EC (EINECS) number 600-073-4
Registration number 01-2119486789-11-0032

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

Recommended used

Food supplement. Special applications.

Substance uses advised against

Details of the supplier of the safety data sheet

Manufacturer

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. May cause skin irritation, respiratory tract irritation, eye irritation. May cause gastrointestinal irritation.

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: 10034-99-8 EC: 600-073-4 Registration number: 01-2119486789-11-0032	substance main component Magnesium sulfate heptahydrate	99-100	not classified as dangerous	

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SECTION 4: First aid measures

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

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance.

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 clean 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

Possible irritation.

Eye contact

Possible irritation.

Ingestion

Irritation, nausea.

Notes to Physician

Symptomatic treatment. The effects of acute magnesium toxicity are partially offset by the use of calcium tartrate.

SECTION 5: Firefighting measures

Suitable extinguishing media

Accommodate extinguishing components to the location of fire. Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

Special hazards arising from the substance or mixture

Non-flammable. 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

Provide sufficient ventilation. Avoid dust formation. Prevent contact with skin and eyes. Do not inhale dust. Follow the instructions in the Sections 7 and 8.

Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13. After removal of the product, wash the contaminated site with plenty of water.

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. Observe valid legal regulations on safety and health protection. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

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

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.

Magnesium sulfate heptahydrate		DNEL			
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	43.6 mg/kg bw/day	Chronic effects systemic		CSR
Workers	Inhalation	77.0 mg/m ³	Chronic effects systemic		CSR
Consumers	Dermal	26.2 mg/kg bw/day	Chronic effects systemic		CSR
Consumers	Inhalation	22.7 mg/m ³	Chronic effects systemic		CSR
Consumers	Oral	26.2 mg/kg bw/day	Chronic effects systemic		CSR

Appropriate engineering controls

Good ventilation, showers, eyewash station

Personal protective equipment

Follow the usual measures intended for health protection at work and especially for good ventilation. Provide showers and eye wash possibility. Do not eat, drink and smoke during work. 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.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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, crystals
Colour	white
Odour	without fragrance
pH	5-9.2 (5% solution at 20 °C)
Melting point/freezing point	cannot be determined - decomposition occurs
Boiling point or initial boiling point and boiling range	cannot be determined - decomposition occurs
Flash point	not applicable
Evaporation rate	not applicable
Flammability	non-inflammable
Upper and lower explosion limit	not applicable
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	1.68
Solubility in water	117.2 g / 100g 20°C
Partition coefficient n-octanol/water (log value)	not determined
Auto-ignition temperature	not applicable
Decomposition temperature	48 °C
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. Heat. Humid air.

Incompatible materials

Hazardous decomposition products

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

SECTION 11: Toxicological information

Acute toxicity

Based on available data the classification criteria are not met.

Magnesium sulfate heptahydrate							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	OECD 425	>4095 mg/kg		Rat	F/M	CSR
Dermal	LD ₅₀	OECD 402	>4095 mg/kg		Rat	F/M	CSR

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

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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

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

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

Magnesium sulfate heptahydrate					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	1392 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water	CSR
LC ₅₀	1474 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	CSR
EC ₅₀	5529 mg/l	72 hours	Algae (Desmodesmus subspicatus)	Fresh water	CSR

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.

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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
CAA (Clean Air Act) Not Listed
CERCLA (Comprehensive Environmental Response Compensation and Liability Act) 40CFR302.4: There is no listed reportable quantity for this product.
OSHA - Occupational Safety and Health Administration Not Listed

U.S. State Regulations

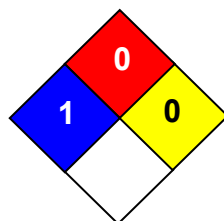
California Proposition 65 Not Listed
Right-to-Know Regulations Not Listed

Chemical safety assessment: Chemical safety Report (CSR) has been carried out for the substance.

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

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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