

according to Regulation (EC) No 1907/2006

Magnosium sulfato hontabydrato pu

	Magnesium sulfate heptahydrate pure					
Revision date: 31.08.2023	Product code: 2807	0	Page 1 of			
SECTION 1: Identification of the	substance/mixture and of the com	pany/undertaking				
1.1. Product identifier						
Magnesium sulfate heptahydra	ate pure					
REACH Registration Number:	01-2119486789-11-XXXX					
CAS No:	10034-99-8					
EC No:	231-298-2					
1.2. Relevant identified uses of the	substance or mixture and uses advised	<u>d against</u>				
Use of the substance/mixture						
Laboratory chemicals						
	ances as such or in preparations at indus	strial sites				
Professional uses: Public dom	ain (administration, education, entertain	ment, services, craftsmen)				
Uses advised against						
Do not use for private purpose	es (household).					
1.3. Details of the supplier of the sa						
Company name:	AnalytiChem GmbH					
Street:	Stempelstraße 6					
Place:	D-47167 Duisburg					
Telephone:	0203/5194-0	Telefax: 0203/5194-290				
E-mail:	info@analytichem.de					
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117				
E-mail:	produktsicherheit@analytichem.de					
Internet:	www.analytichem.de					
	Abteilung Produktsicherheit					
Responsible Department:	, is to have be a set of the set					
	For Hazardous Materials [or Dangero	ous Goods] Incidents Spill, Leak, Fire,				
1.4. Emergency telephone	For Hazardous Materials [or Dangero Exposure, or Accident Call CHEMTR	EC Day or Night Within USA and Canada:				
Responsible Department: <u>1.4. Emergency telephone</u> <u>number:</u>	For Hazardous Materials [or Dangero Exposure, or Accident Call CHEMTR					

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	MgSO4 * 7 H2O
Molecular weight:	246,48 g/mol



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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)		
10034-99-8	Magnesiumsulfat-Heptahydrat			100 %
	600-073-4		01-2119486789-11-XXXX	
		•		

Full text of H and EUH statements: see section 16.

Specific Con	Specific Conc. Limits, M-factors and ATE					
CAS No	EC No	Chemical name	Quantity			
	Specific Conc. Limits, M-factors and ATE					
10034-99-8	600-073-4	Magnesiumsulfat-Heptahydrat	100 %			
	dermal: LD50 =	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg				

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Gastrointestinal complaints

Vomiting

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible solids

Hazardous combustion products



AnalytiChem GmbH

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In case of fire may be liberated: Sulphur oxides

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Avoid contact with skin, eyes and clothes.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

No special environmental measures are necessary.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Take up carefully when dry. Take up dust-free and set down dust-free.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle and open container with care. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Avoid dust formation. Do not breathe dust.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing.

Wash hands before breaks and after work.



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When using do not eat or drink.

Further information on handling

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

storage temperature +5°C - +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
10034-99-8	Magnesiumsulfat-Heptahydrat		-			
Worker DNEL,	long-term	inhalation	systemic	37,6 mg/m³		
Worker DNEL,	long-term	dermal	systemic	21,3 mg/kg bw/day		
Consumer DN	EL, long-term	inhalation	systemic	11,1 mg/m³		
Consumer DN	EL, long-term	dermal	systemic	12,8 mg/kg bw/day		
Consumer DN	EL, long-term	oral	systemic	12,8 mg/kg bw/day		

PNEC values

CAS No	Substance				
Environmental	Environmental compartment Value				
10034-99-8 Magnesiumsulfat-Heptahydrat					
Freshwater 0,68 mg/l					
Freshwater (intermittent releases) 6,8 mg/l					
Marine water	0,068 mg/l				
Micro-organism	Micro-organisms in sewage treatment plants (STP)				

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the



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specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contactTrade name/designation:KCL 741 Dermatril® LRecommended material:NBR (Nitrile rubber) 0,11 mmWearing time with permanent contact:> 480 min

By short-term hand contact

Trade name/designation:KCL 741 Dermatril® LRecommended material:NBR (Nitrile rubber) 0,11 mmWearing time with occasional contact (splashes):> 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: P1

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour: Odour threshold:	solid colourless odourless not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		Х
Auto-ignition temperature:		not determined
Decomposition temperature:		>150/1124 °C
pH-Value (at 25 °C):		5,0 - 8,0 (50 g/l)
Viscosity / kinematic:		not determined
Water solubility: (at 20 °C)		710 g/L



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not determined

not determined

not determined

not determined

not determined

not determined 900 kg/m³

not determined

not determined

No data available

not determined

not applicable

1.68 g/cm³

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Solubility in other solvents not determined Dissolution rate: Partition coefficient n-octanol/water: Dispersion stability: Vapour pressure: Vapour pressure: Density (at 20 °C): Relative density: Bulk density: Relative vapour density: Particle characteristics:

9.2. Other information

Information with regard to physical hazard classes Explosive properties

not determined Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate: not determined Solvent separation test: not determined Solvent content: not determined 100% Solid content: Sublimation point: not determined Softening point: not determined Pour point: not determined not determined: not determined Viscosity / dynamic: Flow time: not determined **Further Information**

not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures



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Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
10034-99-8	Magnesiumsulfat-Heptahydrat						
	oral	LD50 mg/kg	> 2000	Rat	Study report (2000)	OECD Guideline 425	
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2010)	OECD Guideline 402	

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

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

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information No data available

Further information

Gastrointestinal complaints Vomiting

SECTION 12: Ecological information

12.1. Toxicity



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
10034-99-8	Magnesiumsulfat-Heptahy	/drat					
	Acute fish toxicity	LC50	680 mg/l	96 h	Pimephales promelas	Publication (1997)	other: USEPA. 1991. EPA/600/4-90/02 7
	Acute crustacea toxicity	EC50	720 mg/l	48 h	Daphnia magna	Publication (1997)	other: USEPA. 1991. EPA/600/4-90/02 7

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not empty into drains.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Marine transport (IMDG)	
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.



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14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.				
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.				
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
Air transport (ICAO-TI/IATA-DGR)					
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.				
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.				
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.				
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
14.5. Environmental hazards					
ENVIRONMENTALLY HAZARDOUS:	No				
14.6. Special precautions for user					
No dangerous good in sense of this t	ransport regulation.				
14.7. Maritime transport in bulk according	to IMO instruments				
not applicable					
SECTION 15: Regulatory information					
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture				
EU regulatory information					
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)				
(SEVESO III):					
National regulatory information					
Water hazard class (D):	1 - slightly hazardous to water				
SECTION 16: Other information					

Changes

This data sheet contains changes from the previous version in section(s): 9,12.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.