

according to Regulation (EC) No 1907/2006

#### Magnesium nitrate hexahydrate pure

Revision date: 30.08.2023

Product code: 15277

Page 1 of 9

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

#### 1.1. Product identifier

Magnesium nitrate hexahydrate pure

CAS No:	13446-18-9
EC No:	233-826-7

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

Company name: Street:	AnalytiChem GmbH Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
1.4. Emergency telephone number:	For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)	

#### **Further Information**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

#### **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:	Mg(NO3)2 * 6 H2O
Molecular weight:	256,41 g/mol

#### Hazardous components

none (according to Regulation (EC) No 1907/2006 (REACH))



according to Regulation (EC) No 1907/2006

#### Magnesium nitrate hexahydrate pure

Revision date: 30.08.2023

Product code: 15277

Page 2 of 9

#### **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. In case of skin irritation, consult a physician.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Vomiting, Gastrointestinal complaints Methaemoglobinaemia, Cardiac arrhythmias Dyspnoea, Spasms, Irritant Cyanosis (blue coloured blood), Blood pressure drop

#### 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 Oxidizing Hazardous combustion products In case of fire may be liberated: Nitrogen oxides (NOx)

#### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely.



according to Regulation (EC) No 1907/2006

#### Magnesium nitrate hexahydrate pure

Revision date: 30.08.2023

Product code: 15277

Page 3 of 9

Use water spray jet to protect personnel and to cool endangered containers.

#### **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

Do not allow to enter into surface water or drains.

#### 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 Keep away from combustible material.

#### Advice on general occupational hygiene

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



according to Regulation (EC) No 1907/2006

# AnalytiChem GmbH

#### Magnesium nitrate hexahydrate pure

Revision date: 30.08.2023

Product code: 15277

Page 4 of 9

#### Requirements for storage rooms and vessels

Keep in a cool place.

Keep container tightly closed and dry.

#### Further information on storage conditions

storage temperature +15°C - +25°C

#### 7.3. Specific end use(s)

Laboratory chemicals

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.2. Exposure controls

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

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

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Suitable material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Suitable material: NBR (Nitrile rubber) 0,11 mm Wearing 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:	solid
Colour:	colourless
Odour:	odourless
Odour threshold:	No data available
Melting point/freezing point:	



according to Regulation (EC) No 1907/2006

Magnesium nitrate hexahydrate pure			
Revision date: 30.08.2023	Product code: 15277	Page 5 of 9	
Boiling point or initial boiling point and	No data available		
boiling range:			
Flammability:	not determined		
Louver explosion limiter	not applicable		
Lower explosion limits:	not determined		
Upper explosion limits:	not determined		
Flash point:	X No data available		
Auto-ignition temperature: Decomposition temperature:	>90/330 °C		
pH-Value (at 25 °C):	5,0 - 7,0 (50 g/l)		
Viscosity / kinematic:	No data available		
Water solubility:			
(at 20 °C)	420 g/L		
Solubility in other solvents			
not determined			
Dissolution rate:	No data available		
Partition coefficient n-octanol/water:	not determined		
Dispersion stability:	No data available		
Vapour pressure:	No data available		
Vapour pressure:	No data available		
Density (at 20 °C):	1,46 g/cm <sup>3</sup>		
Bulk density:	No data available		
Relative vapour density: Particle characteristics:	not determined		
	No data available		
9.2. Other information			
Information with regard to physical hazard classe	S		
Explosive properties			
No data available Sustaining combustion:	No data available		
Sustaining compusition. Self-ignition temperature			
Solid:	not determined		
Gas:	not applicable		
Oxidizing properties			
The product is: oxidising, Oxidising.			
Other safety characteristics			
Evaporation rate:	not determined		
Solvent separation test:	No data available		
Solvent content:	No data available		
Solid content:	100%		
Sublimation point:	No data available		
Softening point:	No data available No data available		
Pour point:	No data available		
Viscosity / dynamic:	No data available		
Flow time:	No data available		
Further Information			
No data available			
SECTION 10: Stability and reactivity			

#### 10.1. Reactivity

Possibility of hazardous reactions. oxidising, Oxidising.



AnalytiChem GmbH

# according to Regulation (EC) No 1907/2006

#### Magnesium nitrate hexahydrate pure

Revision date: 30.08.2023

Product code: 15277

Page 6 of 9

Explosive

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures. Protect against: Heat

#### 10.3. Possibility of hazardous reactions

ester, Combustible substance Strong acid, Metal powder White/yellow phosphor, Reducing agent Dimethylformamide

#### 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

#### 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.

#### 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.

#### Information on likely routes of exposure

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



according to Regulation (EC) No 1907/2006

#### Magnesium nitrate hexahydrate pure

Revision date: 30.08.2023

#### Product code: 15277

Page 7 of 9

# Other information

No data available

# Further information

Vomiting, Gastrointestinal complaints Methaemoglobinaemia, Cardiac arrhythmias Dyspnoea, Spasms, Irritant Cyanosis (blue coloured blood), Blood pressure drop

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

#### 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. No data available

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms. No data available

#### 12.7. Other adverse effects

No data available

#### **Further information**

Avoid release to the environment. Do not allow to enter into surface water or drains.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not allow to enter into surface water or drains.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself. 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:

 14.2. UN proper shipping name:

 14.3. Transport hazard class(es):

 14.4. Packing group:

 Inland waterways transport (ADN)

 14.1. UN number or ID number:

 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.



according to Regulation (EC) No 1907/2006

Magnesium nitrate hexahydrate pure		
Revision date: 30.08.2023	Product code: 15277	Page 8 of 9
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.	
Marine transport (IMDG)		
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.	
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		
Warning: Oxidising substances.		
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 (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
Marketing and use of explosives precurso	ors (Regulation (EU) 2019/1148):	
	on (EU) 2019/1148: all suspicious transactions, and significant reported to the relevant national contact point.	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juver work protection guideline' (94/33/EC).	nile
Water hazard class (D):	1 - slightly hazardous to water	

#### **SECTION 16: Other information**

#### 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.



according to Regulation (EC) No 1907/2006

### Magnesium nitrate hexahydrate pure

Revision date: 30.08.2023

Product code: 15277

Page 9 of 9

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.