

## SAFETY DATA SHEET

# Magnesium sulphate heptahydrate

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

#### 1.1. Product identifier

##### Trade name

Magnesium sulphate heptahydrate

##### Product no.

322, 1024, 1038, 1128, 1129, 1130, 1131

##### Other means of identification

EC No.: 231-298-2

CAS No.: 10034-99-8

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

##### Relevant identified uses of the substance or mixture

Chemical/technical use Fertilizer production  
Restricted to professional and industrial use.

##### Uses advised against

None known.

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

##### Company and address

###### Acinor AS

Titangaten 13  
1630 Gamle Fredrikstad  
Norway  
+ 47 69 38 40 82  
+ 47 69 38 40 84

##### Contact person

-

##### E-mail

post@acinor.no

##### Revision

02/03/2026

##### SDS Version

1.0

#### 1.4. Emergency telephone number

In urgent situations: Call 113 and request the poison information centre. (24h service)  
Poison Center at Tel.: + 47 22 59 13 00  
See section 4 on 'First Aid Measures'

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP).

#### 2.2. Label elements

##### Hazard pictogram(s)

Not applicable.

## Signal word

Not applicable.

## Hazard statement(s)

Not applicable.

## Precautionary statement(s)

### General

Not applicable.

### Prevention

Not applicable.

### Response

Not applicable.

### Storage

Not applicable.

### Disposal

Not applicable.

## Hazardous substances

Does not contain any substances required to report

## Additional labelling

### 2.3. Other hazards

#### Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the

criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Product/substance	Identifiers	% w/w	Classification	Note
Magnesium sulfate heptahydrate	CAS No.: 10034-99-8 EC No.: 231-298-2 REACH: Index No.:	< 100 %		

### 3.2. Mixtures

Not applicable. This product is a substance.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

-

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Emergency telephone: see section 1.4.

#### Inhalation

Fresh air, peace and warmth. Seek medical attention if you feel unwell.

#### Skin contact

Brush away loose particles from the skin.

Wash skin with soap and water. Remove contaminated clothing. Consult a doctor if symptoms occur.

## Eye contact

Rinse immediately with large amounts of water (temperature 20-30°C) for at least 15 minutes. Remove contact lenses, if present, and open the eye wide. Consult a doctor if all discomfort persists.

## Ingestion

Rinse mouth thoroughly with water. Drink plenty of water. Do not induce vomiting. Consult a doctor if all discomfort persists.

## Burns

Not applicable.

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

Dust can mechanically irritate the skin. Dust can cause irritation symptoms such as coughing and sore throat.

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

Symptomatic treatment.

## Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Foam, powder and water spray, fog or mist.

Unsuitable extinguishing media: Do not use full water jet.

### 5.2. Special hazards arising from the substance or mixture

The chemical is not classified as flammable.

Hazardous combustion products may include, but are not limited to: Sulfurous gases (SO<sub>x</sub>). Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### 5.3. Advice for firefighters

No specific requirements.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Wear specified protective equipment, see section 8.

Avoid dust formation and dispersion.

### 6.2. Environmental precautions

Prevent discharge into sewers, waterways or soil.

### 6.3. Methods and material for containment and cleaning up

Spillage is collected mechanically. Spillage is collected in suitable containers and delivered for destruction as waste according to section 13.

### 6.4. Reference to other sections

See also sections 7, 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Ensure adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Wear specified protective equipment, see section 8.

Avoid dust formation and dispersion.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

No specific requirements.

#### Incompatible materials

Food and animal feed

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

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

Reference: FOR-2011-12-06-1358 Forskrift om tiltaks- og grenseverdier. Sist endret gjennom FOR-2025-12-18-2660.

#### DNEL

No data available.

#### PNEC

No data available.

### 8.2. Exposure controls

Ensure adequate ventilation. Personal protective equipment should be CE marked and should be selected in cooperation with the supplier of such equipment. The recommended protective equipment and the standards specified are indicative. Standards should be of the latest version. Risk assessment of the relevant workplace/operation (actual risk) may require other protective measures. The suitability and durability of the protective equipment will depend on the area of application.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

#### Measures to avoid environmental exposure

Prevent discharge into sewers, waterways or soil.

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

#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

Type	Class	Colour	Standards
In case of insufficient ventilation or if there is a risk of inhaling dust, suitable respiratory protection with a particle filter (type P2) must be used.			NS-EN 143 (Åndedrettsvern - Partikkelfiltre - Krav, prøving, merking).

#### Skin protection

Recommended	Type/Category	Standards
Wear appropriate protective clothing to protect against skin contact.		-

Recommended	Type/Category	Standards
Emergency shower should be available at the workplace. b0r		-

#### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	-	-	EN374-2
Vinyl/PVC	-	-	EN374-2
Replace gloves at any sign of wear. Protective gloves must always be worn on clean, dry hands.	-	-	

#### Eye protection

Type	Standards
Safety glasses with side shields.	EN ISO 16321-1
Eye wash facilities should be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.	-



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Granulate

#### Colour

No data available

#### Odour / Odour threshold

No data available.

#### pH

No data available

#### Density (g/cm<sup>3</sup>)

1.7 (20 °C)

#### Kinematic viscosity

Not applicable - product is a solid

#### Particle characteristics

No data available

#### Phase changes

##### Melting point/Freezing point (°C)

No data available

##### Softening point/range (°C)

Does not apply to solids.

#### Boiling point (°C)

No data available

#### Vapour pressure

Not applicable - product is a solid

#### Relative vapour density

Not applicable - product is a solid

#### Decomposition temperature (°C)

No data available

#### Data on fire and explosion hazards

##### Flash point (°C)

Not applicable - product is a solid

##### Flammability (°C)

No data available.

##### Auto-ignition temperature (°C)

No data available

##### Lower and upper explosion limit (% v/v)

Not applicable - product is a solid

#### Solubility

##### Solubility in water

360 g/l

##### n-octanol/water coefficient (LogKow)

No data available.

##### Solubility in fat (g/L)

No data available.

#### 9.2. Other information

##### Other physical and chemical parameters

No data available.

##### Oxidizing properties

No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended storage conditions.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Food and animal feed

### 10.6. Hazardous decomposition products

None under normal conditions. See also section 5.2.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

#### Skin corrosion/irritation

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

## Serious eye damage/irritation

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

## Respiratory sensitisation

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

## Skin sensitisation

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

## Germ cell mutagenicity

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

## Carcinogenicity

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

## Reproductive toxicity

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.

## Symptoms related to the physical, chemical and toxicological characteristics

None known.

## 11.2. Information on other hazards

### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

### Other information

None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

The chemical is not classified as environmentally harmful.

### 12.2. Persistence and degradability

Methods for determining biodegradability are not relevant for inorganic substances.

### 12.3. Bioaccumulative potential

Product/substance	Magnesium sulphate heptahydrate
LogKow:	-2,2002
Conclusion:	-

### 12.4. Mobility in soil

The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects

Prevent discharge into sewers, waterways or soil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Delivered as waste to an approved processor or collector. The waste code (EAL code) is indicative. The user must specify the correct EAL code if the area of use differs. Do not pour into drains.

## EWC code

06 03 14 Solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

## Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

	14.1 ADR / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR/ADN/RID	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

### Additional information

Not dangerous goods according to ADR/ADN/RID, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Restrictions for application

Industrial use only.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Not applicable.

#### Additional information

Not applicable.

#### Sources

Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH Regulation) of 30 May 2008 with subsequent amendments.

Regulations on classification, labelling and packaging of substances and mixtures (CLP) of 16.06.2012 with subsequent amendments.

FOR 2009-04-01 no. 384: Regulations on the land transport of dangerous goods with subsequent amendments, Directorate for Civil Protection and Emergency Preparedness.

FOR-2004-06-01-930: Regulations on the recycling and treatment of waste (the Waste Regulations), with subsequent amendments.

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EuPCS = European Product Categorisation System  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
GWP = Global warming potential  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

Not applicable.

#### The safety data sheet is validated by

Kiwa Kompetanse AS / NOB

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: NO-en