

Page 1/7

# Safety data sheet according to 1907/2006/EC, Article 31

revised on: 03.01.2023 Version number 9 (replaces version 8) Creation Date: 29.11.2016

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

· 1.1 Product identifier

Trade name: Magnesium sulfate heptahydrate

· Article number: 1423

• CAS Number: 10034-99-8 • EC number: 231-298-2

· Registration number

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

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Life cycle stages

F Formulation or re-packing IS Use at industrial Sites

· Application of the substance / the mixture

Industrial use Reagent for analysis Laboratory chemicals

- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Th. Geyer GmbH & Co. KG Dornierstr. 4 – 6 D-71272 Renningen

Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417

www.thgeyer.de

sicherheitsdatenblaetter@thgeyer.de

- · Further information obtainable from: Product management department
- · 1.4 Emergency telephone number:

National Poisons Information Service

City Hospital Dudley Road

Birmingham B18 7QH

Tel.:Emergency: (00 44) 87 06 00 62 66

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

## **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the GB CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void

(Contd. on page 2)

(Contd. of page 1)

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revised on: 03.01.2023 Version number 9 (replaces version 8) Creation Date: 29.11.2016

Trade name: Magnesium sulfate heptahydrate

· Hazard statements Void

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- PBT: Not applicable.
- · vPvB: Not applicable.

# **SECTION 3: Composition/information on ingredients**

- · 3.1 Substances
- · CAS No. Description

CAS: 10034-99-8 Magnesium sulfate heptahydrate

Identification number(s)

EC number: 231-298-2

#### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- General information:

First aider needs to protect himself.

Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air.

Seek medical treatment in case of complaints.

· After skin contact:

Flush contaminated skijn with soap and plenty of water.

After prolonged contact or any signs of skin changes (redness or other signs of inflammation) seek medical attention.

After eye contact:

Rinse out opened eye for several minutes under running water.

Remove contact lenses

· After swallowing:

Rinse mouth thoroughly with water.

Consult a doctor if you feel unwell.

- · Information for doctor: Please observe safety data sheet/label.
- · 4.2 Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders

Nausea

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

Give Glucocorticoid-Aerosol in case of lung irritation.

If necessary oxygen respiration treatment.

Swallowing calcium solution in small sips funds

Medical supervision for at least 48 hours.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

Carbon dioxide, powder, water spray or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents: No restriction
- 5.2 Special hazards arising from the substance or mixture

Ambient fire may liberate hazardous vapours.

Not combustible.

In case of fire, the following can be released:

Sulphur dioxide (SO2)

Magnesium oxide

(Contd. on page 3)

(Contd. of page 2)

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revised on: 03.01.2023 Version number 9 (replaces version 8) Creation Date: 29.11.2016

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· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

# **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation.

Avoid contact with eyes and skin.

Provide adequate ventilation and do not vapors, dust or gases.

- 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Cover drains.

Pick up mechanically.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Apply the general protection and hygiene measures for the handling with chemicals.

Store in cool, dry place in tightly closed receptacles.

do not get in eyes or on skin or clothing.

No special measures required.

· Information about fire - and explosion protection:

Substance itself does not burn, tuning measures to environment

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from water.
- · Further information about storage conditions: Protect from humidity and water.
- · Storage class: 13
- · 7.3 Specific end use(s) No further relevant information available.

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

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data: see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

· Respiratory protection: Not required.

(Contd. on page 4)

(Contd. of page 3)

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Version number 9 (replaces version 8) Creation Date: 29.11.2016 revised on: 03.01.2023

Trade name: Magnesium sulfate heptahydrate

· Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Labsolute®protective

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

NBR: acrylonitrile-butadiene rubber

Material thickness > 0.11 mm

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

level 6 for application > 480 min

Eye/face protection



Tightly sealed goggles

· Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information

· Physical state Solid · Colour: Colourless · Odour: Odourless Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling

range Undetermined.

· Flammability Product is not flammable.

· Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable. Decomposition temperature: Not determined.

Hq·

· Viscosity:

 Kinematic viscosity Not applicable. · Dynamic: Not applicable.

Solubility

Soluble. · water:

Not determined. · Partition coefficient n-octanol/water (log value) Not applicable.

· Vapour pressure:

· Density and/or relative density

Density at 20 °C: ~1.68 g/cm3 Not determined.

(Contd. on page 5)

# Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: Magnesium sulfate heptahydrate

(Contd. of page 4) · Relative density Not determined. · Vapour density Not applicable. · Particle characteristics See item 3. 9.2 Other information · Appearance: · Form: Solid

· Important information on protection of health and

environment, and on safety.

Auto-ignition temperature: Not determined.

· Explosive properties: Product does not present an explosion hazard.

· Change in condition

 Evaporation rate Not applicable.

 Information with regard to physical hazard classes · Explosives Void · Flammable gases Void · Aerosols Void Void Oxidising gases · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void

· Oxidising solids Void Organic peroxides Void · Corrosive to metals Void Desensitised explosives Void

### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability Stable with proper storage and handling.
- Thermal decomposition / conditions to be avoided: Loss of constitutional water on heating.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Protect from humidity.
- · 10.5 Incompatible materials: Avoid contact with other chemicals.
- · 10.6 Hazardous decomposition products: On fire: see chapter 5

# **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 or 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.

(Contd. on page 6)

# Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: Magnesium sulfate heptahydrate

(Contd. of page 5)

- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

- 13.1 Waste treatment methods Observe local (country-specific) regulations and laws
- Recommendation Chemicals must be disposed of in compliance with the respective national regulations.
- · European waste catalogue
- 07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES
- 07 01 00 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
- 07 01 99 wastes not otherwise specified
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION	14:	ranspo	rt information
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· 14.1 UN	number o	or ID number
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- · ADR, ADN, IMDG, IATA not regulated
- · 14.2 UN proper shipping name
- · ADR, ADN, IMDG, IATA not regulated
- · 14.3 Transport hazard class(es)
- · ADR, ADN, IMDG, IATA
- · Class not regulated
- · 14.4 Packing group
- · ADR, IMDG, IATA not regulated
- 14.5 Environmental hazards: Not applicable.
- 14.6 Special precautions for user Not applicable.
- · 14.7 Maritime transport in bulk according to IMO

**instruments** Not applicable.

(Contd. on page 7)

# Safety data sheet according to 1907/2006/EC, Article 31

revised on: 03.01.2023 Version number 9 (replaces version 8) Creation Date: 29.11.2016

Trade name: Magnesium sulfate heptahydrate

(Contd. of page 6)

· UN "Model Regulation": not regulated

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Inventory of Hazardous Chemicals Substance is not listed.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

Substance is not listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

- · Annex II REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.
- · Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- · Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

- National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Application, use and handling of our products take place out of our control and are solely your responsibility.

- · Department issuing SDS: Product management
- · Contact: Product management
- · Version number of previous version: 8
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.

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