



Safety Data Sheet

according to 1907/2006/EC, Article 31

Print date: 22/03/2016

Version of.: 22/03/2016

1. Name of company

Trade name	Magnesium chloride
Manufacturer/Supplier	Magnesia GmbH Max-Jenne Str. 2 - 4 D-21337 Lüneburg
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Informing department	Quality Unit Ms. Irina Nickel tel.: +49 (0) 4131 / 8710-36
Emergency information	for Germany: Beratungsstelle für Vergiftungserscheinungen Mainz (Tel.: +49 6131 / 19 24 0)

2. Hazards identification

Classification of the substance or mixtureClassification according to Regulation (EC) No 1272/2008:

The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

not applicable

Label elementsLabelling according to Regulation (EC) No 1272/2008:

not applicable

Hazard pictograms:

not applicable

Signal words:

not applicable

Hazard statements:

not applicable

Other hazards

irritating to eyes

Results of PBT and vPvB assessmentPBT:

not applicable

VPvB:

not applicable

3. Composition / information on ingredients

CAS-No.	7791-18-6
EINECS No.	232-094-6
Commercial name	Magnesium chloride
Brand name	Magnesia 4150
Our article no	6415000
Chemical Characterisation (preparation)	Magnesium chloride-6-hydrate, MgCl ₂ x 6H ₂ O



4. First-Aid-Measures

After skin contact	remove all contaminated clothing immediately, wash off immediately with plenty of water; if skin irritation persists, call a physician
After contact with eyes	rinse opened eye for at least 15 minutes under running water and consult a physician
After ingestion	rinse mouth with water; drink 1 to 2 glasses of water; do not induce vomiting without medical advice

5. Fire fighting measures

suitable extinguishing agents: any
Magnesium chloride is not combustible

6. Accidental release measures

Personal precautions

no special measures required

Environmental precautions

do not allow to enter water bodies

Methods of cleaning up

collect mechanically and dispose of according to point 13; rinse off smaller amounts with plenty of water; dispose of wastewater in accordance with regulation

7. Handling and storage

Handling

Precautions for safe handling

avoid contact with eyes, skin and clothing; observe the usual precautions for handling chemicals

Storage

Requirements to be met by storerooms and receptacles

store in dry place; highly hygroscopic; product deliquesces at a relative humidity of > 30%

8. Exposure controls and personal protection

Workplace related limits

no limit defined in Germany

Personal protective equipment

Respiratory protection

dust mask in case of heavy dust formation

Eye protection

protective goggles

Hand protection

rubber gloves

Other

light protective work clothing

Industrial hygiene

wash hands before breaks and after work; when using do not eat, drink or smoke; keep away from food, drink and animal feeding stuff; remove contaminated, saturated clothing immediately

9. Physical and Chemical properties

Appearance	powder, finely crystalline
Colour	white
Odour	odourless
pH value	8.7 /10% aqueous solution

**Change in condition**

Melting point / Melting range	118°C, dehydrated from 100°C with increasing decomposition	
Flashpoint	n.a.	
Flammability (solid, gaseous)	n.a.	
Ignition temperature	n.a.	
Auto-flammability	not auto-inflammable on exposure to air at room temperature (not pyrophoric)	
Fire-promoting properties	none	
Danger of explosion	none	
Vapour pressure (°C)	NDA hPa	
Density	1.604	g/cm ³ / 20 °C
Bulk density	0.950	kg/cm ³
Solubility in / miscibility with water	2.430	kg/L H ₂ O / 20 °C
Further information	n.a. = not applicable	

10. Stability and reactivity**Reactivity and stability****Conditions to be avoided**

NDA

Materials to avoid

NDA

Hazardous decomposition products

Hydrogen chloride

Other information

no hazardous reactions known

11. Toxicological information**Information on toxicological effects****Acute toxicity****Primary irritant effect**On the skin:

irritation effect in susceptible individuals

On the eye:

irritating effect

12. Ecological information

does not contain any substances that are known to be hazardous to the environment

13. Disposal considerations**Product**

dispose in compliance with hazardous waste legislation and recycles, if possible;

060304 – saline solutions that contains chlorides, fluorides and halogenides

Uncleaned packaging

send to an appropriate hazardous waste incinerator facility or cleaning/recovery plant according to legislation

14. Transport information

ADR/RID-GGVS/E class	Packing gr.	Hazard-No.	Substance-No.
ADNR class	No.	Category	
IMDG/GGVSee class	UN-No.	EmS-No.	MFAG-No.
ICAO/IATA class	UN-No.		

**Additional information**

not hazardous material as defined in the transport regulations

15. Regulatory information**National regulations****Water hazard class (German classification):**

WHC 1, acc. to VwVwS (Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes) from 17/05/1999

(previous classification WHC = 0)

Observe existing national and local regulations governing chemicals

16. Special information

The information contained herein is accurate to the best of our knowledge as of today. However we cannot assume any responsibility therefore nor for performance nor for results obtained through the use of the product or information involved, nor for any damages that may be caused by or to the product or information. The buyer assumes all responsibilities connected with the use of the product and information.

Department issuing MSDS:

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