

Safety Data Sheet

According to 453/2010 EU, Appendix II

Date of revision: 12/2013

1. Identification of the substances/ trade name and company

1.1. Identification of the preparation

Trade name: **Magnesium chloride flakes 47%**
Material-No.: according to REACH registration not mandatory

1.2. Use of the preparation

De-icing salt, Raw material for industry

1.3. Company name

DEUSA International GmbH
Nordhäuser Str.2
D-99752 Bleicherode
Tel.: +49 36338 / 67 – 0
Fax: +49 36338 / 67 – 103
info@deusa.de
Information contact: General management

1.4. Emergency telephone:

next toxin information centre

2. Hazard Identification

2.1. Categorisation of the product

No. : 259; WGK 1 - low hazardous to waters

2.2. characterisation

According to 67-548 EU no hazardous material

3. Composition/ Information on Ingredients

3.1. Mixtures

chemical characterisation

$\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$

Identification No.:

CAS-No.: 7791-18-6

EINECS-No.: 232-094-6

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4. First Aid Measures

4.1. Description of first aid measures

General remarks:

No special measures necessary

Skin contact:

Rinse with water.

Eye contact:

Rinse thoroughly with running water and consult a doctor if required

Ingestion:

Rinse mouth intensively and drink richly water

Inhalation:

Fresh air supply and consult a doctor if required

4.2. Important acute and decelerated symptoms

4.3. Instructions for emergency aid or special treatment

5. Fire - fighting measures

5.1. Suitable Extinguishing media

Appropriate measures for put fire out

5.2. Special exposure hazards:

In the direct neighborhood of fire hazard of toxine gases in form of hydrogen chloride

5.3. Special protective equipment:

Inhalation protection

5.4. Additional information

Attention must be paid to the solubility in water therefore prevent fire extinguishing water from getting into sewage or sewage system

6. Measures in case of accidental release

6.1. personal preventive measures, protective equipment, emergency prodedures

6.2. Environmental protection measures

Hazard of drinking water and environment

Avoid penetration of large quantities into sewage or sewage system. Behörde verständigen.

6.3. Methods and material Methoden for flood detention and cleaning

6.4. Link to other aprons

Behold apron 2 und 5

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7. Handling and storage

7.1. Safety measures for safe handling

Information for safe handling

Avoid dust formation

Avoid intake of breath

Explosion and fire protection

Product is not flammable

7.2. Condition for safe storage on consideration of incompatibility

Storage condition

LGK 12 – 13

Please observe regulatory terms

Keep packaging closed.

Protect against humidity and water, product is hygroscopic

7.3. Special end use

8. Exposure controls / personal protection

8.1. Monitoring parameters

Exposure limit values not applicable

DNEL / DMEL – Values not applicable

PNEC – Values not applicable

8.2. Limitation and monitoring of exposition

General protective measures

Hygienic measures

Avoid intake of breath

Avoid contact with eyes

Avoid long contact with skin

Wash hands before take a break or after end of work

Respiration protection

Not applicable

Eye protection

Goggles

Skin protection

Protective gloves

Monitored limits relating to the workplace

Not applicable

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9. Physical and chemical properties

9.1. Information to the basic physical and chemical properties

Aggregate state:	solid
Form:	flakes
Colour:	white/ yellowish
Odour:	indorous
pH-Value (50g/l H ₂ O; 20°C):	8,9
Melting Point:	708°C
Boiling Point:	1412°C
Flashing Point :	-
Vapour pressure:	-
Water solubility (20°C):	1.670 g/l
n-Oktanol/Water-distribution coefficient (log Pow):	not applicable
Auto-ignition temperature :	not applicable
Thermal decomposition:	hazard of hydrogen chloride formation at high temperature
Viscosity:	not applicable

9.2. other details

Density(20°C):	1,591 – 1.604 g/cm ³
Bulk density (20°C):	600 - 800 kg/m ³
Molar mass:	203 g/mol
Thermal conductivity:	-
Specific electric resistance:	-

10. Stability and Reactivity

10.1. Reactivity

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No hazardous reactions known

10.4. Conditions to avoid

No decomposition in regular use

10.5. Incompatible materials

No hazardous reactions known

10.6. Decomposition Products

Hydrogen chloride in case of fire

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11. Toxicological information

- 11.1. Acute oral toxicity:
after ingestion of larger quantities sickness, arrhythmia, cardiovascular collapse
- Skin contact:
Slightly irritant
- Eye contact:
Temporary reversible irritant
- Allergisation:
No allergisating effect known
- Germ cell mutagenicity:
No mutagenic effect known
- Carcinogenicity:
No carcinogenic effect known
- Reproductive toxicity:
No reproductive toxicity known
- STOT-single exposure:
Not known
- STOT-repeated exposure:
Not known
- Aspiration hazard:
No data available, but avoid aspiration.

12. Ecological information

- 12.1. Toxicity
- 12.2. Persistence and decomposability
- 12.3. Bioaccumulation potential
Not applicable
- 12.4. Mobility in soil
Not applicable
- 12.5. Results of PBT- and vPvB-analysis
Not applicable
- 12.6. Additional information
low hazardous to waters / water pollution class 1

13. Disposal considerations

- 13.1. Methods of disposal treatment
- Product
Dispose of according to local regulations
- Uncleaned package
Behold appron 12

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14. Transport information

Appron 14.1. bis 14.5

ADR no dangerous goods

ADNR no dangerous goods

RID no dangerous goods

IATA no dangerous goods

IMDG no dangerous goods

No dangerous cargo according to transport regulation.

14.6. Special preventive measures for the customer

14.7. Bulk cargo according to appendix II MARPOL - agreement 73/78 and according IBC-Code

15. Regulatory information

15.1. Prescription to safety, health or environmental prescription for the compound or mixture

Water pollution class:

No. : 259

WGK 1 - low hazardous to waters

Designation:

No labelling is required in accordance with EES directives.

16. Other information

The data given herein are based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the product in terms of its safety requirements. The data do not signify any warranty with regard to the properties of the product. Existing laws and regulations must be observed by the recipient of our product and will be in its own responsibility.