

Super MG - Magnesium Pellets

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/29/2016 Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product name: Magnesium chloride pellets

Chemical name/ synonyms: Magnesium chloride hexahydrate, MgCl₂-6H₂O

CAS-number: 7791-18-6

EC-number: 232-094-6

Index number CLP Annex VI: not classified

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

Most common uses for Magnesium chloride pellets are: raw material for industrial applications such as oxychloride cement, drilling fluids, textiles, sponges, detergents, animal feed, de-icing, dust-control, paramedical/cosmetic products.

No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Company name: Mid-American Salt

Address.: 4528 Hillegas Rd, Fort Wayne, IN

State/city/postal code: IN/Fort Wayne/46818

Telephone: (260) 387-6170

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No. 1278/2008 (CLP): Not classified. According to Directive 67/548/

EEC: Not classified.

2.2 Label elements

According to CLP regulation:

GHS hazard pictogram: No pictogram

Signal word: No signal word

Hazard statement: None

Precautionary statements: None

Other labels: None

2.3 Other hazards

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Constituent	EC-number	CAS-number	Concentration MgCl ₂ by weight	Concentration w/w (MgCl ₂ -6H ₂ O)
Magnesium chloride hexahydrate (MgCl ₂ -6H ₂ O)	232-094-6	7791-18-6	≥46%	100 %

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air. Apply artificial respiration if necessary and get medical attention.

Skin contact: Wash with plenty of soap and water.

Eye contact: Remove contact lenses. Rinse copiously with water for at least 10-15 minutes. If eye irritation persists, get medical advice and (if needed) medical attention.

Ingestion: Rinse mouth and drink plenty of water afterwards. Do not induce vomiting. In case large quantities have been swallowed, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Respiratory tract irritation

Skin contact: Irritation

Eye contact: Irritation

Ingestion: If large quantities are swallowed, rarely irritation, nausea and gastrointestinal upset may occur.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Magnesium chloride is not combustible. Choose extinguishing media depending on surrounding conditions. All extinguishing media are allowed.

5.2 Special hazards arising from the substance or the mixture

No special hazards.

5.3 Advise for fire fighters

Protective actions and/or special protective equipment depending on surrounding conditions. Use protective clothing and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Use personal protection (see section 8).

6.2 Environmental precautions

Environmental precaution: Prevent uncontrolled discharges into the environment (rivers, water courses, sewers etc.).

Clean-up procedure: Carefully scoop up spilled product and flush remnant away with water.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes and skin.

Ensure suitable personal protection equipment (see section 8)

Do not eat, drink or smoke when handling the product.

Wash hands after finishing working with the product.
Do not inhale dust.
Avoid dust formation and ensure sufficient ventilation or extraction in the work area.

7.2 Conditions for safe storage, including any incompatibilities

Keep packaging tightly sealed.
Store in a dry area.
Avoid contact with metals because of possible corrosion
Protect from humidity and water
Protect from heat and direct sunlight

7.3 Specific end use(s)

No specific end uses

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits: Not determined

8.2 Exposure controls

Appropriate Engineering Controls: Good general ventilation.
Respiratory protection: Under normal circumstances, no special protective equipment required. In case of significant or accidental dust or fumes emissions, dust mask should be worn.

Hand protection: Wear protective (butyl) rubber gloves. Use a high fat protective cream after cleaning skin.

Eye protection: Safety glasses with side shields.

Skin and body protection: Wear protective clothing.

Hygienic measures: When using do not eat, drink or smoke.

Protective measures: Avoid contact with eyes, skin and clothing.

Environmental exposure controls: Prevent the material from entering rivers, water courses and sewers

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Pellet
Colour:	White to pale yellow/grey
Odour:	Odourless
pH:	ca. 8.5 (aqueous solution 10%)
Melting point/range:	ca. 117 °C
Boiling point/range:	ca. 163 °C
Flash point:	Not applicable
Flammability:	Not flammable
Auto-flammability:	Not applicable

Explosion hazards:	Not explosive
Combustive properties:	Not combustible
Vapour pressure:	Not applicable
Vapour density:	Not applicable (not volatile)
Relative density:	Bulk density 800-900 kg/m ³
Solubility(ies):	Soluble in water and alcohol
n-octanol/water:	Partition coefficient: Not applicable
Auto ignition temperature:	Not applicable
Ignition temperature:	
Viscosity:	Not determined
Explosive properties:	None
Oxidizing properties:	None, The product can facilitate corrosion of steel.

9.2 Other information

Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not applicable.

10.2 Chemical stability

Magnesium chloride is stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Avoid oxidizing agents. In contact with metals corrosion can occur.

10.6 Hazardous decomposition products

No decomposition is used as directed. If Magnesium chloride is heated above 180 °C harmful vapours can develop (hydrochloric acid). Above 300 °C toxic chloride vapours are formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Classification: Magnesium chloride was not classified according to Council Directive 67/548/EEC or Council Regulation 1272/2008/EC

Acute toxicity:

By Oral route: Rat, Oral, LD50: 8100 mg/kg

By Inhalation: No data available.

Chronic toxicity:

Germ cell mutagenicity: No known studies. Not considered to be mutagenic in general.

Carcinogenicity: Substance is not classified as carcinogenic under ACGIH, NIOSH, IARC, NTP or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Magnesium chloride is an inorganic naturally occurring product that will not accumulate quickly in the environment under normal conditions of use. Significantly higher chloride concentrations in the soil and groundwater can harm plants and other vegetation.

12.2 Persistence and degradability

Not applicable for inorganic substances.

12.3 Bioaccumulation potential

Bioaccumulation is unlikely: inorganic substance.

12.4 Mobility in soil

Magnesium chloride easily dissolves in water. Dependent on the pH and the ions available in natural surface water it can be involved in precipitation reactions (for example as magnesium sulphate).

12.5 Results of PBT and vPvB assessment

Magnesium chloride is not classified as PBT or vPvB substance

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of substance in suitable containers in accordance with local, regional, national or international regulation. Do not dispose of in waterways or together with household waste.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number:	not applicable
14.2 UN proper shipping name:	not applicable
14.3 Transport hazard class(es):	not applicable
14.4 Packing group:	not applicable
14.5 Environmental hazards:	not applicable
14.6 Special precautions for users:	not applicable
14.7 Transport in bulk according to Annex of MARPOL 73/78 and the IBC Code:	not applicable

SECTION 15: REGULATORY INFORMATION

Not classified as dangerous according to Council Directive 67/548/EEC

Not classified as dangerous according to Council Directive 1272/2008/EC

Substance exempted from Regulation 1907/2006 (REACH): Annex V, paragraph 10.

Other relevant legislation: 1999/45/EC, 2001/58/EC, 2006/58/EC (30 ATP), 2006/8/EC

SECTION 16: ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damage.