



MATERIAL SAFETY DATA SHEET

Prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures(R.G. 13.12.2014-29204).

Substance/Mixture Name : MAGNESIUM SULPHATE
Prepared Date : 20.10.2015
New Editing Date : -
Avoidance Arrangement : 00
Sheet Number : AFR 06-07

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1. SUBSTANCE/MIXTURE AND COMPANY/DISTRIBUTION IDENTITY

1.1. Substance/Mixture Identity

Chemical Name : Magnesium Sulphate Heptahydrate

Formulation : $MgSO_4 \cdot 7H_2O$

CAS number : 10034-99-8

EC No : 231-298-2

1.2. Identified uses of substances and mixtures and their non-recommended uses

Fertilizer, Textiles, paper industry, detergents, animal feed, paramedical and cosmetic products.

1.3. Safety data sheet supplier's information

Company Name : Alkim Alkali Kimya A.Ş.
Adress : İnönü Cd. No: 13 34437 Taksim/İSTANBUL
Phone : +90212 292 22 66
Fax : +90212 252 76 60
E-Mail : alkim@alkim.com

SDS Authorized person : İlker AYDOĞAN

e-mail : ilker.aydogan@alkim.com

SDS No : GBF-2114

1.4. Emergency number

Emergency number : 0312 796 21 60

National poison consultation center : 114





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2. DEFINITION OF HARMFULNESS

2.1. Classification of substances and mixtures

This article is not a dangerous class according to the "Regulation on the Classification, Labeling and Packaging of Matter and Mixtures" (R.G.11.12.2013-28848 Repeater).

2.2. Tagging Elements

This product Classification labeling and packaging of substances and mixtures it does not need to be labeled as directive.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Items

Substance/Compound	EC No	CAS No	Concentration	Classification
MgSO ₄ ·7H ₂ O	231-298-2	10034-99-8	> 98	-----

4. FIRST AID MEASURES

Respiratory: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Scin contact: Flush with plenty of clean water. Remove contaminated clothing.

Eye Contact: Wash eyes with plenty of clean water.

If swallowed: Plent of water to drink immediately after instion. If you feel bad, conatact to Doctor.

5. FIRE FIGHTING MEASURES

5.1. Fire extinguishers

Use dry chemical powder, carbon dioxide, foam or water spray



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5.2. Specific losses arising from the substance or mixture

Sulfur Oxides, Magnesium oxides

5.3. Recommendations for fire fighting teams

Special protective equipment for fire fighters should be selected. For slippery floor appropriate shoes should be used.

6. ACCIDENTAL AGRICULTURAL PREVENTION MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

The dust mask should be used. P1 filter (according to DIN 3181) is recommended.

6.2. Environmental Measures

Measures to prevent sewage, surface waters, groundwater and soil contamination should be taken. Prevent fire extinguishing water from interfering with the ground and underground waters.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

7.2. Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.2 Exposure controls

8.2.1. Appropriate engineering controls

General industrial hygiene practice.

8.2.2. Personal protective equipment

Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



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Control of environmental exposure Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic chemical and physical properties

View : Solid
Molecular Weight: : 246,47 g/mol
Melting Point : No data available
Boiling Point : No data available
Flash Point : Not applicable
Flammability : No data available
Auto-flammability : Not applicable
Explosion hazards : Not explosive
Combustive properties : Not combustible
Vapour pressure : <0,133 hPa (<0,100 mmHg) at 20 C
Vapour density : Not applicable (not volatile)
Bulk density : 600-800 kg/m³
Solubility(ies) : 710 g/L (20°C)
PH (in 1 % Solution) : 7-9

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Hazardous reaction possibility



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No data available

10.4 Conditions to avoid

No data available

10.5 Substance to avoid

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Magnesium oxide
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

No data available

Inhalation LC50

No data available

Dermal LD50

No data available

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as



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probable, possible or confirmed human carcinogen by IARC.ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available



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13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

RID: Not dangerous goods according to transport regulations.

ADR: Not dangerous goods according to transport regulations.

IMDG: Not dangerous goods according to transport regulations.

IATA: Not dangerous goods according to transport regulations.

15. REGULATORY INFORMATION

This substance is; Labeling and packing of material and mixtures not classified dangerous according to the regulation (RG11.12.2013-28848 Repeater)

16. OTHER INFORMATION

ECHA <http://echa.europa.eu/information-on-chemicals/registered-substances>

For further information, Alkim Alkali Kimya A.Ş. company. This information has been prepared to meet the health and safety requirements of the customers. Damage caused by misuse, storage and / or improper handling of the products may be caused by Alkim Alkali Kimya A.Ş. not responsible. While the above information is believed to be accurate, it is not claimed to cover everything and should only be used as a guide. The information given in this document is based on our current knowledge and records and can be used for the relevant product provided that necessary and appropriate measures are taken. The information given here can not be construed as a guarantee of the particular product features.