

Safety Data Sheet



Magnesium Sulphate Heptahydrate

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Magnesium Sulphate Heptahydrate
Brand name	ALDEMAG
REACH Registration number	01-2119486789-11
CAS-No.	10034-99-8
EC No.	231-298-2

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

1.2.1. Identified uses

Fertilisers, Feed and food use.

1.2.2. Uses advised against

None

1.3. Details of the supplier of the safety data sheet

TwinsBridge International LLC
15 Engle Street, Suite 104
Englewood, NJ 07631
Phone: +1 (201) 408-5825 Fax: +1 (201) 308-5525

1.4. Emergency telephone number

Phone: +1 (201) 408-5825

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

2.1.2. Physical and Chemical Hazards

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

2.2.1. EC No. 231-298-2

2.2.2. Label In Accordance With (EC) No. 1272/2008
No pictogram required.

2.3. Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name	MAGNESIUM SULPHATE HEPTAHYDRATE
CAS-No.	10034-99-8
EC No.	231-298-2
Gross Formula	MgSO ₄ •7H ₂ O
Composition Comments	90 < Purity <100% w/w

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues.
DO NOT INDUCE VOMITING!

Skin contact

Remove affected person from source of contamination. Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information

No specific symptoms noted.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Water

Unsuitable extinguishing media

Carbon dioxide (CO₂). Halon.

5.2. Special hazards arising from the substance or mixture

Specific hazards

When heated and in case of fire, irritating vapours/gases may be formed.

5.3. Advice for firefighters

Protective equipment for fire-fighters

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust. Provide adequate ventilation.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water.

6.4. Reference to other sections

Collect and dispose of spillage as indicated in section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Provide good ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Respiratory equipment

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

Hand protection

Use suitable protective gloves if risk of skin contact. Wear suitable chemical resistance gloves approved to EN 374.

Appropriate materials: rubber, leather, cotton.

Eye protection

Wear approved safety goggles. Recommended: EN 166.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Powder, dust
Colour	White
Odour	Odourless
Solubility	Soluble in water and alcohol
Relative density	1000
Vapour density (air=1)	1.7
Evaporation rate	Not applicable.
pH-Value, Diluted Solution	7
Solubility Value (G/100G H ₂ O@20°C)	34

9.2. Other information

Not available.

10. STABILITY AND REACTIVITY*Reactivity*

Stable under normal temperature conditions and recommended use.

Chemical stability

Stable under the prescribed storage conditions.

Possibility of hazardous reactions

Hazardous Polymerisation. Will not polymerise.

Conditions to avoid

Avoid excessive heat for prolonged periods of time. Water, moisture.

Incompatible materials

Materials To Avoid: None known.

Hazardous decomposition products

When heated, vapours/gases hazardous to health may be formed. Sulphurous gases (SO_x).

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Dust in high concentrations may irritate the respiratory system.

Ingestion

No specific health warnings noted.

Skin Contact

Powder may irritate skin.

Eye contact

Particles in the eyes may cause irritation and smarting.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Not regarded as dangerous for the environment.

12.2 Toxicity

EC 50, 48 Hrs, Daphnia, mg/l 3480

12.3 Persistence and degradability

Degradability

Degradability

No information required.

Phototransformation

Not applicable.

Stability (Hydrolysis)

Not applicable.

Biodegradation

Not Applicable - Inorganic chemical.

12.4 Bioaccumulative potential

Bioaccumulative potential

Bioaccumulation of this product is not expected to occur.

12.5 Mobility in soil

Adsorption/Desorption Coefficient. Not Applicable - Inorganic chemical.

12.6 Results of PBT and vPvB assessment

No information available.

12.7 Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION*General*

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. REGULATORY INFORMATION15.1 *Safety, health and environmental regulations/legislation specific for the substance or mixture*

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

"Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments."

15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out.

16. OTHER INFORMATION

General information

"Only trained personnel should use this material.

The following information is provided to conform with article 13 of the EC Directive on Packaging and Packaging Waste 94/62/EC:

- Wherever possible we use returnable packaging and pallets. Details of these are on our Sales Contracts
- For any non-returnable packaging the cost of disposal is at your expense, but we do have a list of reprocessors available
- In most cases, but not all, we are able to supply products in returnable packaging but the additional cost of this will be for the customer's expense. Please ask for details with your specific requirements
- Any products supplied in returnable packaging is clearly marked to this effect."

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