

Magnesium Sulphate Anhydrous

Printed 18.08.2005 Revision 05.02.2009 Version 4.2

**Product Code Numbers: 720, 722, 43259, 43246,
43359, 93640**



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1. Identification of the substance/preparation

Name of product

Magnesium Sulphate Anhydrous

Recommended intended purpose

Fertilizer Miscellaneous industrial applications

2. Composition/Information on Ingredients

CAS-Nr.	EC-Nr. (EINECS/ELINCS)	Name	Amount	Classification, R-, S-phrases
7487-88-9	231-298-2	Magnesium sulphate	> 98%	-

Additional advice

none

3. Special hazards information for man and environment

R-phrases

Not applicable

Special hazards information for man and environment

Not classified as a dangerous product according to the EC-directive in the latest version

4. First aid measures

General information

Consult physician with continuous complaints.

In case of inhalation

In case of inhalation ensure fresh air.

In case of skin contact

In case of skin contact rinse off with water.

In case of eye contact

In case of eye contact rinse thoroughly with water. .

After swallowing

Rinse mouth with water and drink plenty of water.

5. Fire-fighting measures

Suitable extinguishing material

The product is not combustible.

Extinguishing material that may not be used for safety reasons

None

Special exposure hazards arising from the substance, combustion products or resulting gases

In the event of fire: sulphur oxide (SOx) can be set free.

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire fighting water separately, must not be discharged into the drains

6. Measures during unintentional release

Personal precautionary measures

Avoid dust formation

Environmental precautions

Do not discharge into the drains or bodies of water

Methods for cleaning / picking up

Avoid dust formation

Pick up mechanically and send for disposal

Flush away residues with water

Disposal according to regulations

Safety Data Sheet (91/155 EG / 2001/58/EG)

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Additional Information

Information for safe handling look up Chapter 7.

Information for personal protective equipment look up Chapter 8.

Information for disposal look up Chapter 13.

7. Handling and Storage

Advice on safe handling

No special measures necessary if used correctly.

Take the usual precautions when handling chemicals.

Advice on protection against fire and explosion

The product is not combustible.

No special measures necessary.

Requirements for storage rooms and vessels

No special measures necessary.

Advice on storage compatibility

Keep away from water.

Further Information on storage conditions

Store in a dry place.

Product is hygroscopic

Storage Group 13 (German VCI-classification)

Information on storage stability

Unlimited stability.

8. Exposure controls / personal protection

Additional advice on system design

None

Additional advice

None

Respiratory protection

In case of dust formation wear micro dust mask.

Hand protection

Not required.

Eye protection

In case of dust formation wear goggles.

Skin protection

None

General protective measures

None

Hygiene measures

Do not eat or drink during work.

Brush soiled clothing.

After work wash thoroughly.

9. Physical and chemical properties

Form	Colour	Odour				
crystalline	white	odourless				
Data relevant for safety		Value	Temperature	At	Method	Remark
pH-value in delivery state		9	20 °C	340 g/l		mild alkaline
Melting range		1120-1150 °C				
Flash point		not applicable				
Flammable solid		no				
Density		2,7 g/cm³	20°C	1013 hPa		
Bulk density		app. 1300 kg/m³				
Solubility in water		340 g/l	20 °C	1013 hPa		
Combustion value		1				
Oxidizing properties						
none						
Explosive properties						
None						
Additional information						
none						

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10. Stability and reactivity**Conditions to avoid**

Product warms up, when treated with water.

Materials to avoid

No hazardous reactions known.

Hazardous decomposition productsToxic gases/vapours: sulphurous oxides (SO_x)**Thermal decomposition**

> 700 °C

11. Toxicological information**Acute toxicity / irritability / sensitization**

	Value/Validation	Species	Method	Remark
LD50 acute oral	Not determined			
LD50 acute dermal	Not determined			
LC50 acute inhalation	Not determined			
Irritability skin	no			Experiences.
Irritability eye	no			Experiences.
sensitization skin	no			Experiences.
sensitization respiratory system	no			Experiences.

Toxicological test (Additional information)

No experimental indication of genotoxic effects.

Substance has no mutagenic activity (Ames-Test).

Additional information

Toxicological data refer to pure product.

Our data are not sufficient for total texture judgement.

Follow the usual hygiene directives for handling with chemicals.

12. Ecological information**Data on elimination (persistence and degradability)**

	Elimination rate	Method of analysis	Method	Remark
Physicochemical degradability	not applicable			
Biological degradability	not applicable			
Degradability	inorganic product, cannot be eliminated from water by biological purification process			
Biological eliminability	not applicable			
Eco-toxicological effects	inorganic product, cannot be eliminated from water by biological purification process			

	Value	Species	Method	Remark
Fish	LC50 14000 mg/l (24 h)	Leuciscus idus	DIN 38412 L15	Ref. (1)
Daphnia	EC50 1700 mg/l (24 h)	Daphnia magna	DIN 38412 L11	Ref. (1)
Algae	EC50 2700 mg/l (72 h)	Scenedesmus subspicatus	DIN 38412 L34	Ref. (1)
Bacteria	EC50 84000 mg/l (30 min)	Photobacterium phosphoreum	DIN 38412 L9	Ref. (1)

Behaviour in sewage plant

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

Additional ecological information

	Value	Method	Remark
AOX			not applicable

General information

Product is not allowed to discharge into aquatic environment.

13. Disposal considerations**Waste code no.**

02 01 09

Name of waste

Agrochemical waste other than those mentioned in 02 01 08

Recommendations for the product

In accordance with regulations for special waste, discharge of after pre-treatment, to an authorized special waste disposal site.

The product is used as fertilizer. Before landfill the agricultural utilization should be examined.

Safety Data Sheet (91/155 EG / 2001/58/EG)

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Recommendations for the packaging

Uncontaminated packaging may be taken for recycling.

Contaminated packaging should be emptied as far as possible and discharged like product.

Recommended cleansing agent

No

14. Transport information

Road/Rail – ADR/RID

No hazardous material as defined by the regulations.

Sea - IMDG

No hazardous material as defined by the regulations.

Air IATA/CAO

No hazardous material as defined by the regulations.

15. Regulatory information

Remarks for classification

No

R-phrases

No

S-phrases

No

National regulations

Decree for case of interference not applicable

Water hazard classification 1 KBwS classification

16. Other Information

Training advice

no

Recommended uses and restrictions

no

Further Information

The information given is based on our present knowledge and is not meant to guarantee product properties. Recipients of our product must take responsibility for observing existing laws and regulations.

Refer to product information.

Sources of key data used

Ref. (1): INNOLAB GmbH & Co. KG, Niedervellmarsche Str. 30, 34233 Fulda, Germany, project no.: 04/926035, 1994