



Magnesium Sulphate

In emergencies:

Belgium:

Antigifcentrum [Belgian National Anti-Poison Centre]-

Brussels:

TEL. +32 (0) 70 24 52 45

The Netherlands:

Nationaal Vergiftigingen Informatie Centrum [Dutch

National Poison Information Centre] – Bilthoven:

TEL. +31 (0) 302 74 88 88

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Identification of the product

- Nature of the product : Pure substance.
- Use of the product : Various industrial applications.
- Identification of the company : See Safety Data Sheet footer
- Emergency telephone number: : See Safety Data Sheet footer

2. HAZARDS IDENTIFICATION

No significant risks.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name of component(s)	Weight %	CAS No / EC No / EC Annex No	Pictogram(s)	R-phrases(s)
Magnesium sulphate heptahydrate:	> 99.8 %	10034-99-8 / 231-298-2 /-----		

4. FIRST AID MEASURES

- * General : In case of any doubt or if symptoms persist, always call a doctor.
Never give anything by mouth to an unconscious person.
- First aid measures in the event of
 - Inhalation : Move the victim to fresh air.
Put person in a half-sitting position and let rest.
- * - Skin contact : Remove contaminated clothing.
Rinse the skin immediately with copious amounts of water (shower if necessary).
- * - Eye contact : Rinse thoroughly with copious amounts of water for a long time (at least 15 minutes).
Remove any contact lenses.
If irritation of the eyes persists consult an ophthalmologist.
Do not use any neutralising agents.
- * - Ingestion : DO NOT INDUCE VOMITING. Rinse the mouth with water and make the victim drink plenty of water.
Seek medical advice.

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**5. FIRE-FIGHTING MEASURES**

- Extinguishing media
- Suitable extinguishing media : The product is non-combustible; in case of fire in immediate vicinity, use any extinguishing agent.
- * Special measures : Use water (spray) to cool nearby containers and structures. Prevent fire-fighting water from entering surface water or ground water.
- * Special exposure hazards : In the event of fire carbon monoxide (CO) and sulphur oxides may be released.
- Protective equipment : Use a self-contained breathing apparatus in the immediate vicinity of the fire.

6. ACCIDENTAL RELEASE MEASURES

- * Personal precautions : Evacuate contaminated areas immediately and ensure there is sufficient ventilation. Avoid inhalation of the product and contact with the eyes and skin. Wear suitable personal protective equipment. (See Section 8).
- * Measures for protection of the environment : Prevent the product from entering open water, the sewer system or the soil. Notify the authorities if the product finds its way into the sewer system or open water.
- * Clean-up method : Collect the spilt product in sealable waste containers. For a disposal of the waste product, see Section 13. Rinse away the remnants with plenty of water.

7. HANDLING AND STORAGE

- * Handling : Ensure the area is adequately ventilated. Avoid dust formation. Avoid inhalation of the product and contact with the eyes and skin. Wear suitable personal protective equipment. (See Section 8).
- * Storage conditions : Only store in the original, tightly closed container, in a well-ventilated, dry location. Storage temperature: 5 - 30°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Ensure the area is adequately ventilated.
- Industrial hygiene : Do not eat, drink or smoke during use.
- * Occupational exposure limits : Not determined.
- Personal protective equipment
- Inhalation protection : Ventilation, local exhaust ventilation, approved breathing mask.
 - Hand protection : Gloves.
 - Eye protection : Chemical goggles.
 - Skin protection : Suitable protective clothing.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

* Physical state (20°C)	:	Crystalline solid.
Appearance/Colour	:	White.
Odour	:	Odourless.
pH-value	:	7 (34 g/100 ml, 20°C)
* Boiling point/boiling range (1013 hPa)	:	Not determined.
Solidification point/melting point	:	1,124°C
Flash point	:	Not applicable.
* Vapour pressure (20°C)	:	10.6 hPa
Solubility in water	:	26 g/100 ml (0°C)
* Log P (octanol/water) (20°C)	:	Not determined.
* Relative density (water = 1)	:	1.67 (4°C)

10. STABILITY AND REACTIVITY

Stability	:	Stable under normal conditions.
* Conditions to avoid	:	High temperatures.
* Substances to avoid	:	None.
* Hazardous decomposition products	:	In the event of fire carbon monoxide (CO) and sulphur oxides may be released.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	:	
- Inhalation	:	The product may be irritating to the respiratory organs. Symptoms: Coughing, sore throat.
* - Skin contact	:	May be irritating to the skin. Symptoms: Redness, pain
- Eye contact	:	May be irritating to the eyes. Symptoms: Redness, pain
- Ingestion	:	Symptoms: Stomach cramps, diarrhoea.

12. ECOLOGICAL INFORMATION

Mobility	:	The product dissolves well in water.
* Persistence and degradability	:	Inorganic product.
* Bioaccumulation	:	No data available.
* Ecotoxicity	:	• Magnesium sulphate heptahydrate: LC50 (Fish, 96 hrs): > 15,000 mg/l • Magnesium sulphate heptahydrate: EC50 (Daphnia magna, 24 hrs) : > 1,500 mg/l.
* Ecological information	:	<i>Information on the website http://ecb.jrc.it/ESIS (see IUCLID Data Sheets).</i>
* Water hazard class (Netherlands)	:	11
* Decontamination measures (Netherlands)	:	B:

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**13. INSTRUCTIONS FOR DISPOSAL**

Product disposal	:	The product should be disposed of in accordance with national and local laws.
Disposal of packaging.	:	The used packaging is only intended for the packaging of this product. After use, ensure the packaging is empty and close.
* European waste catalogue	:	European waste code 'XX XX XX'. This code is assigned on the basis of the the most common applications and may not be representative of the contaminants resulting from actual use of the product. The producer of the waste must assess their processes themselves and allocate the appropriate waste code. See Directive 2001/118/EC.

14. TRANSPORT INFORMATION

Road/Rail (ADR/RID)	:	The product is not included in the List of Dangerous Goods for Transport by Road.
Maritime transport (IMDG)	:	The product is not included in the List of Dangerous Goods for Transport by Sea.

15. INFORMATION REQUIRED BY LAW

N.B.	:	The product is not included in the list of dangerous goods (Annex 1 to Directive 67/548/EEC, as amended).
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16. OTHER INFORMATION

- * This Safety Data Sheet has been compiled in accordance with EC Regulation No 1907/2006. This Safety Data Sheet is only intended for industrial / professional use.
- * Change to the previous version.
- * Reason for change : General revision:
Information sources : This information is based on the current data available (Manufacturer(s), ...).

The information provided here was full and correct to the best of our knowledge on the date of issue of this Safety Data Sheet. The information only relates to the product specified and does not guarantee the quality and the completeness of the properties of the product, or in the event of the product being used together with other products or in any other process. It remains the responsibility of the user to ensure that the information is applicable and complete for the specific use that the user in question is making of the product.

BRENNTAG cannot accept responsibility for any loss or damage ensuing from the use of this data.

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