

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 26.08.2007

Revision: 26.08.2007

**1 Identification of substance:**

- **Product details:**
- **Trade name:** Magnesium Sulfate Heptahydrate
- **Article number:** 2504-01

- **Application of the substance / the preparation**

Chemicals for synthesis  
Laboratory chemicals

- **Manufacturer/Supplier:**

Mallinckrodt Baker B.V  
P.O.Box 1  
7400 AA Deventer  
The Netherlands

Tel(+31)(0) 570-687500  
Fax(+31)(0) 570-687574  
E-mail : jtbaker.nl@covidien.com

- **Informing department:**

Quality Systems & Regulatory Affairs  
E-mail : sjors.duteweert@covidien.com

- **Emergency information:**

Environment Health & Safety department  
during normal opening times (8 am till 5.30 pm) tel: (+31)(0) 570 687500

**2 Hazards identification**

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment** void

**3 Composition/information on ingredients**

- **Chemical characterization:**
- **CAS No. Designation:**  
10034-99-8 Magnesium Sulfate Heptahydrate
- **Identification number(s):**
- **EINECS Number:** 231-298-2

**4 First aid measures**

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** The product is not skin irritating.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** In case of persistent symptoms consult doctor.

**5 Fire fighting measures**

- **Suitable extinguishing agents**  
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Protective equipment:** Wear self-contained breathing apparatus.

**6 Accidental release measures**

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.

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· **Additional information:** No dangerous materials are released.

**7 Handling and storage**

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** no special requirements
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

**8 Exposure controls and personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to in handling the chemicals.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
Butyl rubber, BR  
Chloroprene rubber, CR  
Neoprene gloves  
Fluorocarbon rubber (Viton)  
PVC gloves  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.
- **Body protection:** Protective work clothing.

**9 Physical and chemical properties:**

- **General Information**

<b>Form:</b>	Crystalline
<b>Colour:</b>	White
<b>Smell:</b>	Odourless
- **Change in condition**

<b>Melting point/Melting range:</b>	1124°C
<b>Boiling point/Boiling range:</b>	Not determined

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- **Flash point:** -23°C
- **Danger of explosion:** Product is not explosive.

- **Steam pressure at 20°C:** 10.6 hPa
- **Density at 20°C** 1.67 g/cm<sup>3</sup>

- **Settled apparent density at 20°C** ~1000 kg/m<sup>3</sup>
- **Solubility in / Miscibility with**  
  - **Water at 20°C:** 300 g/l
  - **pH-value (50 g/l) at 20°C:** 5.0-8.2

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:** Heat, boiling temperatures.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** No dangerous decomposition products known

**11 Toxicological information**

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** redness
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**  
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.  
 The material is not subject to classification according to EC lists in the last version.

**12 Ecological information:**

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

EC50 / 72h	5530 mg/l (Alg) <i>Scenedesmus subspicatus</i> )
EC50/24h	3480 mg/l ( <i>daphnia magna</i> )
LC50 / 24h (static)	28670 mg/l (Orfe, golden ( <i>Leuciscus Idus</i> ))

- **General notes:** Generally not hazardous for water.

**13 Disposal considerations**

- **Product:**
- **Recommendation**  
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**\* 14 Transport information**

- |   |     |
|---|-----|
| · <b>Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)</b> | n/a |
| · <b>ADR/RID-GGVS/E Class:</b>  | -   |
| · <b>Maritime transport IMDG/GGVSea:</b>                              |     |
| · <b>IMDG/GGVSea Class:</b>   | -   |
| · <b>Air transport ICAO-TI and IATA-DGR:</b>                          |     |
| · <b>ICAO/IATA Class:</b>   | -   |

**\* 15 Regulatory information**

- **Designation according to EC guidelines:**  
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).  
The material is not subject to classification according to EC lists and other sources of literature known to us.  
Observe the normal safety regulations when handling chemicals

**16 Other information:**

- These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*
- **Department issuing data specification sheet:** Quality Assurance Department
  - **Contact:** Sjors duteweert
  - **\* Data compared to the previous version altered.**