



Safety data sheet

COMMISSION REGULATION (EU) 2020/878 of 18 June
2020 amending Annex II to Regulation (EC) No
1907/2006

Printing date 23.02.2023

Version number 1

Revision: 23.02.2023

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- **1.1 Product identifier**
 - Trade name: **Magnesium sulphate heptahydrate**
 - CAS Number:
7487-88-9/ 10034-99-8
 - EC number:
231-298-2/ 600-073-4
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.
- **Application of the substance / the mixture**
 - Used as basic chemical and during synthesis in chemical industry also used as fertilizer and as a laboratory chemicals.
 - In agriculture and gardening Magnesium sulphate is used to correct Magnesium Deficiency in soil.
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Mani Agro Chem Pvt Ltd
Plot No.36/55, G.R.Nagar,
Seelanaickenpatty,
Salem-636201,
Tamilnadu, India.
 - **Further information obtainable from:**
Telephone number:+91-427-2466010, +91-9943068899
E-mail: maniagrochem@gmail.com, info@maniagrochem.com
- **1.4 Emergency telephone number:**

Contact details of European importer
Emergency telephone number:
Telephone number of EU importer:
Opening hours:
Other Comments (e.g. language(s) of the phone service): English

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
The substance is not classified, according to the CLP regulation.
- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008** Not applicable.
 - **Hazard pictograms** No pictogram
 - **Signal word** No signal word
 - **Hazard statements** Not applicable



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· **2.3 Other hazards**

The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100

· **Results of PBT and vPvB assessment**

- **PBT:** No further relevant information available.
- **vPvB:** No further relevant information available.

SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterisation: Substances**

· **CAS No. Description**

CAS: 10034-99-8 Magnesium sulphate heptahydrate

· **Identification number(s)**

· **EC number:** 231-298-2/ 600-073-4

· **Additional information:**

Molecular Formula : $MgSO_4 \cdot 7H_2O$

Molecular Weight : 246.48 g/mol

Concentration : 99 -99.5 %

· **SVHC** The substance is not in the SVHC list.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** First aid Personnel should pay attention to their own safety.

· **After inhalation:**

If breathed in, move out of affected area and supply fresh air.

If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

· **After skin contact:**

Generally the product does not irritate the skin, but in any case, wash thoroughly with water and soap.

· **After eye contact:**

wash affected zones with plenty of water for at least 15 minutes.

Rinse opened eye for several minutes under running water.

· **After swallowing:**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

· **Information for doctor:** Treat symptomatically.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Powder or water spray.
Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Sulphur dioxide (SO₂)
Magnesium oxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment.
Keep unprotected persons away.
Avoid formation of dust.
Avoid contact with skin and eyes.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**
Sweep up and shovel. Keep in suitable, closed containers for disposal.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Handle in accordance with good industrial hygiene and safety practice.
When handling do not eat, drink or smoke.
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Keep away from sources of ignition, no smoking.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry, well-ventilated area away from incompatible substances.



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- **Information about storage in one common storage facility:**
Avoid contact with sodium, sodium oxide, other alkali metals and oxides
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)**
 - Used as basic chemical and during synthesis in chemical industry also used as fertilizer and as a laboratory chemicals.
 - In agriculture and gardening Magnesium sulphate is used to correct Magnesium Deficiency in soil.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Remove and wash contaminated clothing before re-use.
 - Good personal hygiene practices should be followed.
 - The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:**
 - 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).
- **Protection of hands:**



Protective gloves

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**

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.

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- **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:** Safety glasses with side shield.
- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:	Solid
· Form:	Crystalline
· Colour:	Whitish
· Odour:	Odourless

· **pH-value:** 6-9

· Change in condition

· Melting point/freezing point:	1124 °C
· Initial boiling point and boiling range:	Data waiving (boiling point is not required for solids which melt above 300 °C)

· **Flash point:** the flash point is only a relevant property for liquids, thus it does not need to be done for substances that are solids or gases at room temperature.

· **Flammability (solid, gas):** Non flammable

· **Decomposition temperature:** >700 °C

· **Explosive properties:** Product does not present an explosion hazard.

· **Oxidising properties** No oxidising properties

· **Density:**
Relative density at 20 °C 1.67 g/cm³

· **Solubility in / Miscibility with water at 100 °C:** 73.8 g/l

· **9.2 Other information** No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
Avoid contact with incompatible materials
Heat, decomposition on heating to 1124 °C
- **10.5 Incompatible materials:** Strong oxidizing agents,
- **10.6 Hazardous decomposition products:**
Hazardous decomposition products formed under fire conditions. - Sulphur oxides,
Magnesium oxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **11.2.1 Endocrine disrupting properties:** The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100
- **11.2.2 Information on other hazard:** No further information is available.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.



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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** No further relevant information available
- **vPvB:** No further relevant information available.
- **12.6 Endocrine disrupting properties:** The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100
- **12.7 Other adverse effect:** No further information is available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:**
Dispose of content/container must be made according to local/regional/national/international regulations.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | Not regulated |
| · 14.2 UN proper shipping name | Not regulated |
| · 14.3 Transport hazard class(es) | Not regulated |
| · 14.4 Packing group | Not regulated |
| · 14.5 Environmental hazards: | Not Applicable |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |



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· UN "Model Regulation": Not regulated

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** No signal word
- **Hazard statements** Not applicable

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.

- **Other regulations, limitations and prohibitive regulations**
- International inventories-
- Australian Inventory of Industrial Chemicals (AIIC)-listed
- China - Chemical Inventory of Existing Chemical Substances (IECSC)-listed
- Korea – KE Numbers-listed
- Mexico - National Inventory of Chemical Substances-listed
- New Zealand - Inventory of Chemicals (NZIoC)-listed
- Philippine Inventory of Chemicals and Chemical Substances (PICCS)-listed
- Taiwan Chemical Substance Inventory (TCSI)-listed
- Thailand - First Existing Chemicals Inventory-listed
- Turkish Chemical Inventory-listed

- **15.2 Chemical safety assessment:**
- Chemical Safety Report not required as the substance is not classified.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department.
- **Contact:**
- Telephone number: +91-427-2466010, +91-9943068899
- E-mail: maniagrochem@gmail.com, info@maniagrochem.com
- **Abbreviations and acronyms:**
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

· Sources

REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No. 1907/2006

ECHA-

<https://echa.europa.eu/substance-information/-/substanceinfo/100.117.194>

Toxplanet-

<https://chemical-search.toxplanet.com//product-search/chemexpert/ei-fts-search/f7bf991a-cd2f-443b-a0e3-ac61e587805f>

· Data compared to the previous version altered.

- Section 1: Identification of the substance/mixture and of the company/undertaking
- Section 2: Hazard Identification
- Section 3: Composition/information on ingredients
- Section 4: First-aid measures.
- Section 5: Fire-fighting measures
- Section 6: Accidental Release measures
- Section 7: Handling and storage.
- Section 8: Exposure Controls/Personal protection.
- Section 9: Physical and Chemical properties.
- Section 10: Stability and Reactivity
- Section 11: Toxicological Information.
- Section 12: Ecological Information
- Section 13: Disposal consideration
- Section 14: Transport information
- Section 15: Regulatory information
- Section 16: Other information

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