

Safety Datasheet

COMMISSION REGULATION (EU) No 2015/830of 1June2015amending Annex II of Regulation (EU) No 453/2010

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

Trade name: Magnesium Sulphate Heptahydrate

CAS Number: 7487-88-9/10034-99-8EC Number: 231-298-2Registration Number:: 01-2119486789-11-0015

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

SU 0: Other: C15-Manufacture of leather and related products

SU 0: Other: Uses of substances as such or in preparations in industrial sites

Product category

- PC1 Adhesives, sealants
- PC12 Fertilizers
- PC18 Ink and toners
- PC21 Laboratory chemicals
- PC23 Leather tanning, dye, finishing, impregnation and care products
- PC26 Paper and board dye, finishing and impregnation products: including bleaches and other processing aids
- PC29 Pharmaceuticals
- PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids
- PC39 Cosmetics, personal care products

Process category

- PROC2 Use in closed, continuous process with occasional controlled exposure
- PROC3 Use in closed batch process (synthesis or formulation)
- PROC4 Use in batch and other process (synthesis)where opportunity for exposure arises
- PROC8a Transfer of substance or preparation(charging/discharging)from/ to vessels/ Large containers at non-dedicated facilities
- PROC8b Transfer of substance or preparation(charging/discharging)from/ to vessels/ Large Containers at non- dedicated facilities
- PROC9 Transfer of substance or preparation in to small containers(dedicated filling line, including weighing)
- PROC14 Production of preparations or articles by tabletting, compression, extrusion, palletisation
- PROC15 Use as laboratory reagent

•Environmental release category

- ERC1 Manufacture of substances
- ERC2 Formulation of preparations
- ERC5 Industrial use resulting in inclusion into or on to a matrix
- ERC8a Wide dispersive indoor use of processing aids in open systems



Application of the substance/the mixture

•Used as basic chemical and during synthesis in chemical industry. Also used as fertilizer and as a laboratory chemical.

• In agriculture and gardening, Magnesium sulphate is used to correct Magnesium deficiency in soil.

Uses advised against

Avoid contact with ethoxy ethyl alcohols, arsenates , phosphates, tartrates, lead, barium, strontium, and calcium

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: +91-27-2466010, 2469599,+91-9943068899 E-mail: maniagrochem@gmail.com, info@maniagrochem.com

OR details

Sustainability Support Services (Europe)AB, Ideon Science Park, Scheelevägen17,Beta5, 22370Lund,Sweden

1.4 Emergency telephone number: Emergency telephone number: 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) No1272/2008

The substance is not classified according to the CLP regulation.

2.2 Label elements

- Labeling according to Regulation (EC) No1272/2008 : Void
- Hazard pictograms: Void
- Signal word : Void
- Hazard statements : Void
- Classification system: A technical grade with a minor Nickel impurity will trigger a Skin Sens1classification

2.3 Other hazards Results of PBT and vPvB assessment

- • **PBT** : Not applicable.
- **vPvB**: Not applicable.



SECTION 3: Composition / information on ingredients

3.1 Chemical Characterisation:Substances

CAS No. Description Identification Number(s) EC Number : 7487-88-9 Magnesium Sulphate : 231-298-2

Additional Information:

Chemical Formula: H2O4S.Mg Molecular weight: 120.366 % concentration: 99%to99.5% SVHC The substance is not in the list of SVHC substances

SECTION 4 : First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothings oiled by the product. **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly. After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor. Wash out the eye with plenty of clean water15 min.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available. Information for doctor: Treat symptomatically and supportively.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5 : Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Carbon dioxide 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Sulphur dioxide (SO2) Carbon dioxide (CO2)

5.3 Advice for fire fighters

Protective equipment: Wear self-contained respiratory protective device. **Additional information** Cool endangered receptacles with water spray.



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 or use a non-sparking shovel for clean up. Place in container for disposal.
- 6.4 Reference to other sections

See Section7 for information on safe handling. See Section8 for information on personal protection equipment. See Section13 for disposal information.

SECTION 7:Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.

Information about fire-and explosion protection: Keep ignition sources away-Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities in Storage: Requirements to be met by store rooms and receptacles:

Store in a cool, dry, well-ventilated area away from in compatible substances.

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)

No further relevant information available.

•Used as basic chemical and during synthesis in chemical industry. Also used as fertilizer and as a laboratory chemical.

• In agriculture and gardening, Magnesium Sulphate is used to correct Magnesium deficiency in soil.



SECTION 8:Exposure controls/personal protection

Additional information about design of technical facilities:

Use adequate ventilation to keep air borne concentrations low.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

8.2 Exposure controls

Personal protective equipment: General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Required on release of dust. Recommended filter types: filterP1acc.toDINEN3181 for solid particles of inert substances

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

Nitrile rubber, NBR

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.

On full contact: glove material: nitrile rubber, glove thickness: 0.11mm, penetration time: >480 min;

On splash contact: nitrile rubber: glove thickness: 0.11 mm, penetration time :> 480 min.

Eye protection: Safety glasses

Body protection: Protective work clothing



SECTION 9: Physical and Chemical properties

9.1 Information on basic physical an General Information Appearance:	d chemical properties
• Form	: Solid
Colour	: Whitish
• Odour	: Odour less
pH-value	: 6-8
Change in condition	
 Melting point/Melting range 	
 Boiling point/Boiling range 	: Not applicable.
Flashpoint	: Not applicable.
Flammability (solid, gaseous)	: Product is not flammable.
Ignition temperature:	
Decomposition temperature	: >700°C
Danger of explosion	: Product does not present an explosion hazard.
Explosion limits: Oxidising properties	: No oxidizing properties.
Vapour pressure	: Not determined.
Density: Relative density at 20°C	:1.67g/cm ³
Solubility in/Miscibility with water at100°C	: 73.8g/l
Viscosity: Dynamic •9.2 Other information	:Not applicable :No further relevant information available



SECTION 10 :Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- 10.2 Chemical stability

Stable at ambient temperature and under normal conditions of use.

- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- 10.4 Conditions to avoid heat, decomposition on heating to1124°C
- 10.5 Incompatible materials: sodium, sodium oxide, other alkali metals and oxides
- 10.6 Hazardous decomposition products:

Sulphur oxides SO2 and SO3, Magnesium Oxide MgO

SECTION 11 : Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50values relevant for classification:

LD50 >2000 mg/kg (rat(Sprague- Dawley)male/female)

Primary irritant effect: Skin corrosion/irritation No irritating effect Serious eye damage/irritation Dust may cause mechanical eye irritation

Respiratory or skin sensitisation

Since there was no indication on that the test substance elicit anSI≥3when tested up to 50%, Magnesium Sulphate Anhydrous was considered to be a non-skin sensitizer

Toxicokinetics, metabolism and distribution

Based on low MW, high water solubility, assumed low log Pow high absorption is expected. However, theion formation of the substance immediately when in contact with a fluid decreases the absorption. The REACH guidance has also been taken into consideration. Therefore, 50% absorption is taken for or al, dermal and inhalation exposure.

Repeated dose toxicity

In a Combined Repeated Dose Toxicity Study with the Reproduction /Developmental Toxicity Screening Test, no adverse effects were seen on general toxicity endpoints. No adverse effects were seen on reproduction/developmental toxicity endpoints. NOAEL:1,500 mg/kg/day (general toxicity)

CMR effects (carcinogenity, mutagenicityand toxicity for reproduction) Germ cell mutagenicity



GeneticToxicity : Negative

Magnesium Sulphate Anhydrous is not mutagenic in the mouse lymphomaL5178Y test system in a test conducted using OECD Guideline 476(In Vitro Mammalian Cell Gene Mutation Test)

Carcinogenicity Carcinogenicity :Data waiving

Reproductive toxicity

In a Combined Repeated Dose Toxicity Study with the Reproduction /Developmental Toxicity Screening Test, no adverse effects were seen on reproduction/developmental toxicity endpoints.

NOAEL:1,500 mg/kg/day (reproduction/developmental toxicity)

STOT-single exposure No data available

STOT-repeated exposure No data available

Aspiration hazard No data available

SECTION 12 : Ecological information

12.1 Toxicity

Aquatic toxicity:

•	
EC50 (24hr)	1700 mg/L (Daphnia magna)
EC50 (72hr)	2700 mg/L (Scenedesmussubspicatus (green algae))
LC50 (48hr)	14000 mg/L (Leuciscusidus melanotus)

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 class1 (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: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Dispose off waste material according to local, state and federal regulations.

Un cleaned packaging:

Recommendation: Disposal must be made according to official regulations.



SECTION 14 :Transport information	
14.1 UN-Number ADR,ADN,IMDG,IATA	Not applicable
14.2 UN proper shipping name ADR,ADN,IMDG,IATA	Not applicable
14.3 Transport hazard class (es)	
ADR,ADN,IMDG,IATA Class	Not applicable
14.4 Packing group ADR,IMDG,IATA	Not applicable
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpoland the IBC Code	Not applicable.
UN "Model Regulation":	Not applicable

SECTION 15 : Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labeling according to Regulation (EC) No1272/2008Void Hazard pictograms: Void Signal word: Void Hazard statements: Void

Directive2012/18/EU: None Named dangerous substances-ANNEX I: None

National regulations:

Other regulations, limitations and prohibitive regulations Substances of very high concern (SVHC) according to REACH, Article 57 The substance is not listed as SVHC.

15.2 Chemical safety assessment:

Exposure assessment not required as substance is not classified as dangerous.



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 MSDS: Product safety department. **Contact:**

Telephone number:+91-427-2466010,2469599, +91-9943068899

E-mail: <u>maniagrochem@gmail.com</u>, info@maniagrochem.com

Abbreviations and acronyms:

RID:Règlementinternationalconcernantletransportdesmarchandisesdangereusesparchemindefer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association"(IATA) ICAO: International Civil Aviation Organisation ICAO-TI:Technical Instructions by the "International Civil Aviation Organisation"(ICAO) ADR:Accord européensurle transport des marchandises dangereuses par Route(EuropeanAgreement concerning the International Carriage of Dangerous Goods by Road) IMDG:International Maritime Code for DangerousGoods IATA: International Air Transport Association 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT:Persistent, Bioaccumulative andToxic SVHC:Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

Sources

•REGULATION (EC)No 1272/2008 OFTHE EUROPEANPARLIAMENTANDOF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amendingandrepealingDirectives67/548/EEC and1999/45/EC, and amending Regulation (EC)No1907/2006

Data from ECHA website

https://echa.europa.eu/registration-dossier/-/registered-dossier/15865

*Data compared to the previous version altered.

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 Considerations