

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: Magnesium Sulphate Heptahydrate
REACH registration notes: EXEMPTION UNDER ANNEX V.
CAS number: 10034-99-8
EC number: 231-298-2

Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Industrial use.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (EC 1272/2008):

Physical hazards: Not Classified
Health hazards: Not Classified
Environmental hazards: Not Classified

Label elements:

EC number: 231-298-2
Hazard statements: C Not Classified
Other hazards:

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance:

Product name: Magnesium Sulphate Heptahydrate
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4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.

Ingestion: Get medical attention if any discomfort continues.

Skin contact: Wash with plenty of water. Get medical attention if any discomfort continues.

Eye contact: Wash with plenty of water. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed:

General information: No additional symptoms or effects are anticipated.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water spray. Dry chemicals. Foam.

Unsuitable extinguishing media: None known.

Special hazards arising from the substance or mixture:

Hazardous combustion products: Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

Advice for firefighters:

Protective actions during firefighting: No action shall be taken without appropriate training or involving any personal risk. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions: Avoid discharge into drains and the aquatic environment.

Methods and material for containment and cleaning up:

Methods for cleaning up: Remove mechanically. Dispose of waste via a licensed waste disposal contractor.

Reference to other sections: For personal protection, see Section 8. For waste disposal, see Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling:

Usage precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Specific end use(s):

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure controls:

Protective equipment:



Appropriate engineering controls: Provide adequate general and local exhaust ventilation.

Eye/face protection: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection: It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Nitrile rubber.

Other skin and body protection: Wear protective clothing.

Hygiene measures: Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection: If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P1.

Environmental exposure controls: Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance: Crystalline powder.

Colour: White.

Odour: Almost odourless.

Melting point: 770°C

Relative density: 1.7 g/cm³

Solubility(ies): 342 g/l water @ °C 9.2.

Other information:

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal temperature conditions and recommended use.

Chemical stability:

Stability: Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: None known.

Incompatible materials:

Materials to avoid: No information available.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity – oral:

Acute toxicity oral (LD₅₀ mg/kg): 2,000.0

Species: Rat

Acute toxicity – dermal:

Acute toxicity dermal (LD₅₀ mg/kg): 2,000.0

Species: Rat

Skin corrosion/irritation:

Skin corrosion/irritation: Not classified. Based on available data the classification criteria are not met.

Serious eye damage/irritation:

Serious eye damage/irritation: Not classified. Based on available data the classification criteria are not met.

Respiratory sensitisation:

Respiratory sensitisation: Not classified. Based on available data the classification criteria are not met.

Skin sensitisation:

Skin sensitisation: Not classified. Based on available data the classification criteria are not met.

Germ cell mutagenicity:

Genotoxicity - in vitro: Not classified. Based on available data the classification criteria are not met.

Genotoxicity - in vivo: Not classified. Based on available data the classification criteria are not met.

SAFETY DATA SHEET
Magnesium Sulphate Heptahydrate

Issued: 30/07/2018

Page 5

Carcinogenicity:

Carcinogenicity: Not classified. Based on available data the classification criteria are not met.

Reproductive toxicity:

Reproductive toxicity – fertility: Not classified. Based on available data the classification criteria are not met.

Reproductive toxicity development: Not classified. Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure:

STOT - single exposure: Not classified. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure:

STOT - repeated exposure: Not classified. Based on available data the classification criteria are not met.

Aspiration hazard:

Aspiration hazard: Not relevant.

12. ECOLOGICAL INFORMATION

Ecotoxicity: This product does not contain any substance(s) considered to be harmful or toxic to aquatic organisms. Not regarded as dangerous for the environment.

Toxicity:

Acute toxicity – fish: LC₅₀: 680 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates: EC₅₀: 720 mg/l, Daphnia magna

Persistence and degradability: Not applicable.

Bioaccumulative potential: Not applicable.

Mobility in soil:

Mobility: Not applicable.

Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB.

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

[cont...]

14. TRANSPORT INFORMATION

General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

UN number: Not applicable.

UN proper shipping name: Not applicable.

Transport hazard class(es): No transport warning sign required.

Packing group: Not applicable.

Environmentally hazards:

Environmentally hazardous substance/marine pollutant: No.

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL and the IBC Code:

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

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

EU legislation: Regulation (EC) No 1272/2008 CLP.
Regulation (EC) No 1907/2006 REACH.

Chemical safety assessment: No chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.