

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

Product identifier:

Product name: Magnesium Hydroxide
CAS number: 1309-42-8
EC number: 215-170-3

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

Identified uses: Chemical

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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: 215-170-3
Hazard statements: Not Classified

Other hazards: None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Product name: Magnesium Hydroxide
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4. FIRST AID MEASURES

Description of first aid measures:

- Inhalation:** Move affected person to fresh air at once. Get medical attention if any discomfort continues.
- Ingestion:** Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.
- Skin contact:** Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
- Eye contact:** Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.
- Protection of first aiders:** First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed:

- Inhalation:** May cause respiratory irritation.
- Ingestion:** May cause discomfort if swallowed.
- Skin contact:** May cause skin irritation.
- Eye contact:** May cause eye irritation.

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:** Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture:

- Hazardous combustion products:** None known.

Advice for firefighters:

- Special protective equipment for firefighters:** Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. 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:** Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Avoid generation and spreading of dust.
- Environmental precautions:** Avoid discharge into drains or watercourses or onto the ground.

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Methods and material for containment and cleaning up:

Methods for cleaning up: Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Collect and place in suitable waste disposal containers and seal securely.

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. Avoid inhalation of dust and contact with skin and eyes. Avoid generation and spreading of dust. Avoid handling which leads to dust formation. Prevent accumulation of dust.

Advice on general occupational hygiene: When using do not eat, drink or smoke. Provide eyewash station and safety shower. Good personal hygiene procedures should be implemented. Take off immediately all contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Wash after use and before eating, smoking and using the toilet. Wash at the end of each work shift and before eating, smoking and using the toilet.

Conditions for safe storage, including any incompatibilities:

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid generation and spreading of dust. Store away from incompatible materials (see Section 10).

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Ingredient comments: No exposure limits known for ingredient(s).

Exposure controls:

Protective equipment:



Appropriate engineering controls: Provide adequate ventilation.

Personal protection: Wear apron or protective clothing in case of contact.

Eye/face protection: Dust-resistant, chemical splash goggles.

Hand protection: Wear protective gloves.

Hygiene measures: Good personal hygiene procedures should be implemented. Take off immediately all contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Wash after use and before eating, smoking and using the toilet. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product. Provide eyewash station and safety shower.

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Respiratory protection: Dust production: Wear a respirator fitted with the following cartridge: Particulate filter, type P2.
Particulate filter, type P3.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance: Powder.
Colour: White.
Odour: Odourless.
Solubility(ies): Almost insoluble in the following materials: water
Other information: No information available.

10. STABILITY AND REACTIVITY

Reactivity: There are no known reactivity hazards associated with this product.

Chemical stability:

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

Possibility of hazardous reactions: Under normal conditions of storage and use, no hazardous reactions will occur. Will not polymerise.

Conditions to avoid: There are no known conditions that are likely to result in a hazardous situation.

Incompatible materials:

Materials to avoid: Mineral acids. Maleic Anhydride Phosphorus.

Hazardous decomposition products: None known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity – oral:

Notes (oral LD₅₀): LD₅₀ >2000 mg/kg, Oral, Rat

Acute toxicity – inhalation:

Notes (inhalation LC₅₀): LC50 >2.1 mg/l, Inhalation, Rat

Skin corrosion/irritation: May cause skin irritation.

Serious eye damage/irritation: May cause eye irritation.

General information: Excessive amounts of magnesium may cause central nervous system depression, respiratory paralysis, and cardiac arrest.

Inhalation: May cause respiratory irritation.

Ingestion: May cause discomfort if swallowed.

Skin contact: May cause skin irritation.

Eye contact: May cause eye irritation.

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12. ECOLOGICAL INFORMATION

Ecotoxicity: The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity:

Acute toxicity – fish: LC₅₀, 96 hours: 511.31 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity – aquatic invertebrates: EC₅₀, 48 hours: 284.76 mg/l, Daphnia magna

Persistence and degradability: There are no data on the degradability of this product.

Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil:

Mobility: No information available.

Results of PBT and vPvB assessment: This substance is not classified as PBT or vPvB according to current EU criteria.

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General information: Waste should be treated as controlled waste.

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

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.

Environmental 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.

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15. REGULATORY INFORMATION

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

National regulations:

Control of Substances Hazardous to Health Regulations 2002 (as amended).
Health and Safety at Work etc. Act 1974 (as amended).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

EU legislation:

Commission Regulation (EU) No 2015/830 of 28 May 2015.
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

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.