

MAGNESIUM HYDROXIDE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product identifier

Product name Magnesium Hydroxide
Product Type/Use Lab Grade

Details of the supplier of the safety data sheet

ENTAJ FEED & RAW MATERIALS MANUFACTURING CO.
ADDRESS: AMMAN – BUILDING 2477, OFFICE 118210
LICENSE NO.: 202618787

2. Hazard(s) identification

Classification of the substance or mixture:

Not classified under GHS.

Hazard statements:

Precautionary statements:

If medical advice is needed, have product container or label at hand Keep out of reach of children

Read label before use

Other Non-GHS Classification:

WHMIS NFPA/HMIS

(NFPA diamond: Health 0, Flammability 0, Physical Hazard 0, Personal Protection X)

3- Composition/Information on Ingredients

Ingredients:

CAS	Name	%
1309-42-8	Magnesium hydroxide	>98 %

Percentages are by weight



4. First aid measures

Description of first aid measures

After inhalation: Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear. After skin contact: Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists. After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned. After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing agents: Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

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

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Magnesium oxide

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Ensure that air-handling systems are operational. Ensure adequate ventilation.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

Should not be released into environment.



Methods and material for containment and cleaning up:

Keep in suitable closed containers for disposal. Wear protective eye wear, gloves, and clothing. Refer to Section 8. Always obey local regulations. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect solids in powder form using vacuum with (HEPA filter). Evacuate personnel to safe areas.

Reference to other sections:

7. Handling and storage

Precautions for safe handling:

Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities:

Store away from incompatible materials. Protect from freezing and physical damage. Keep away from food and beverages. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store in cool, dry conditions in well-sealed containers. Store with like hazards

8. Exposure controls/personal protection

Control Parameters:

OSHA PEL TWA (Total Dust) 15 mg/m³ (50 mppcf*)

ACGIH TLV TWA (inhalable particles) 10 mg/m³

Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use under a fume hood

Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary, use NIOSH approved breathing equipment.

Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good



laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Eye protection:

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

General hygienic measures:

Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

9. Physical and chemical properties

Property	Value	Property	Value
Appearance (physical state, color)	White powder	Explosion limit lower/upper	Not determined
Odor	Not Determined	Vapor pressure	Not determined
Odor threshold	Not determined	Vapor density	Not determined
pH-value	9.5 - 10.5	Relative density	2.360 g/cm ³
Melting/Freezing point	350 deg C (662 deg F)	Solubilities	insoluble
Boiling point/Boiling range	Not determined	Partition coefficient (n-octanol/water)	Not determined
Flash point (closed cup)	Not determined	Auto/Self-ignition temperature	Not determined
Evaporation rate	Not determined	Decomposition temperature	Not determined
Flammability (solid, gaseous)	Not determined	Viscosity	Kinematic: Not determined; Dynamic: Not determined
Density	Not determined		

10. Stability and reactivity

Reactivity: Nonreactive under normal conditions.

Chemical stability: Stable under normal conditions.

Possible hazardous reactions: None under normal processing

Conditions to avoid: Incompatible Materials.

Incompatible materials: Strong acids. Strong bases. Oxidizing agents.

Hazardous decomposition products:



11. Toxicological information

Parameter	Value
Acute Toxicity - Oral	LD50 - rat - 8,500 mg/kg
Chronic Toxicity	No additional information.
Corrosion Irritation	No additional information.
Sensitization	No additional information.
Single Target Organ (STOT)	No additional information.
Numerical Measures	No additional information.
Carcinogenicity	No additional information.
Mutagenicity	No additional information.
Reproductive Toxicity	No additional information.

12. Ecological information

Ecotoxicity Persistence and degradability: Bio accumulative potential:

Mobility in soil:

Other adverse effects:

13. Transport information

Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.



14. Other information

UN-Number

Not Regulated.

UN proper shipping name

Not Regulated.

Transport hazard class(es) Packing group:

Not Regulated

Environmental hazard: Transport in bulk:

Special precautions for user:

15. Regulatory information

Emergency Planning and Community Right-to-Know (Sections 311/312):

Classified as presenting Acute Health Hazard and Chronic Health Hazard.

Toxic Chemical Release Reporting (Section 313):

This product does not contain any components subject to toxic chemical release reporting requirements.

Hazardous Waste Regulations:

None of the components of this product are classified as hazardous waste.

Chemical Inventory Status:

Magnesium hydroxide (CAS No. 1309-42-8) is listed on the applicable chemical substances inventory.

Environmental Response and Liability Regulations:

This product does not contain substances subject to environmental release reporting requirements.

Cancer and Reproductive Toxicity Listings:

Chemicals known to cause cancer: None listed

Chemicals known to cause reproductive toxicity (female): None listed

Chemicals known to cause reproductive toxicity (male): None listed

Chemicals known to cause developmental toxicity: None listed

Substance Inventory Listings:

All ingredients are listed on the applicable domestic substances inventories.

Pollutant Release Reporting:

None of the ingredients are subject to pollutant release reporting thresholds at 0.1% or 1%.

16. Other information

This Material Safety Data Sheet (MSDS) has been prepared in accordance with internationally recognized standards and is based on the best information available at the time of issue. It provides a summary of the health and safety hazards of the material and general guidance for its safe handling in the workplace. As the actual conditions of use are beyond our control, each user is responsible for assessing the risks associated with their specific application and implementing appropriate control measures.

END OF MSDS

