

Magnesium Hydroxide, Dry Powder

According to Federal Register / Vol.77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Supersedes: 04/2018

Revision Date: 10/2020

Version 5.0

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Form: Powder

Product Name: Magnesium Hydroxide, Powder, AlkapHix Mag™

1.2 Intended Use of the Product

For use in industrial applications such as industrial process streams and industrial and municipal wastewater treatment/odor control.

1.3 Name, Address, and Telephone of the Responsible Party

GARRISON MINERALS Company:

> 11901 W 48th Avenue Wheat Ridge, CO 80033 sales@garrisonminerals.com

720.389.7609

1.4 Emergency Telephone Number

Emergency Number: 720-389-7609

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification (GHS-US) Not Classified

2.2 Label Elements

GHS-US Labeling No Labeling applicable

2.3 Other Hazards Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4 Unknown Acute Toxicity

(GHS-US) No Data Available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture Not applicable

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Magnesium Hydroxide	(CAS No) 1309 -42-8	97-100	Not Classified

Full text of H-phrases: see section 16



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SECTION 4: FIRST-AID MEASURES

4.1 Description of First Aid Measures

General Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

Inhalation When symptoms occur: go into open air and ventilate suspected area. Obtain medical

attention if breathing difficulty persists.

Skin Contact Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

Obtain medical attention if irritation develops or persists.

Eye Contact Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Obtain medical attention if irritation develops or persists.

Ingestion Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2 Most Important Symptoms and Effect Both Acute and Delayed

General Not expected to present a significant hazard under anticipated conditions of normal use.

Dust may cause mechanical irritation to eyes, nose, throat, and lungs.

Inhalation Prolonged contact with large amounts of dust may cause mechanical irritation.

Skin Contact Skin contact with large amounts of dust may cause mechanical irritation.

Eye Contact Eye contact with dust may cause mechanical irritation.

Ingestion Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not Available

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

General If exposed or concerned, get medical advice and attention



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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may

spread fire

5.2 Special Hazards Arising from the Substance or Mixture

Fire Hazard: Not considered flammable Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3 Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire

Firefighting Instructions:

Use water spray or fog for cooling exposed containers

Protection During Firefighting: Do not enter fire area without proper protective equipment,

including respiratory protection.

Hazardous Combustion Products: None known

Reference to Other Sections: Refer to section 9 for flammability properties

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (dust, mist, fumes). Avoid prolonged contact with

eyes, skin and clothing.

6.1.1 For Non-Emergency Personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2 For Emergency Personnel

Protective equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2 Environmental Precautions Prevent entry to sewers and public waters

6.3 Methods and Material for Containment and Cleaning Up

For Containment: Avoid generation of dust during clean-up of spills

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Recover

the product by vacuuming, shoveling or sweeping. Avoid

generation of dust during clean-up of spills.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.4 Reference to Other Sections: See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Hygiene Measures: Handle in accordance with good industrial hygiene and safety

procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when

leaving work.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Technical Measures: Comply with applicable regulations

Storage Conditions: Store in a dry, cool and well-ventilated place, keep container

closed when not in use. Keep/Store away from extremely high or

low temperatures, incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers, halogenated

compounds, reactive metal powders.

7.3 Specific End Use(s) For use in industrial applications such as industrial process streams

and industrial and municipal wastewater treatment/odor control.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters For substances listed in section 3 that are not listed here, there are

no established exposure limits from the manufacturer, suppler, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments,

or the Mexican government.

Particulates not otherwise classified (PNOC) (RR-00072-6)			
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ respirable fraction 10 mg/m³ total dust	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ respirable fraction 15 mg/m³ total dust	
Alberta	OEL TWA (mg/m³)	10 mg/m³ (total)	
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (total dust)	
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended)	



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Particulates not otherwise classified (PNOC) (RR-00072-6)		
		3 mg/m³ (particulate matter containing no
New Brunswick	OEL TWA (mg/m³)	Asbestos and
		<1% Crystalline silica, respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended)
Nunavut	OEL TWA (mg/m³)	5 mg/m³ (respirable mass)
Northwest Territories	OEL TWA (mg/m³)	5 mg/m³ (respirable mass)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (inhalable)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended)
		10 mg/m³ (including dust, inert or nuisance
Québec	VEMP (mg/m³)	particulates; containing no Asbestos and <1%
		Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (insoluble or poorly insoluble-
		inhalable fraction)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (insoluble or poorly soluble-inhalable
		fraction)

8.2 Exposure Controls

Appropriate Engineering Controls: Avoid creating or spreading dust. Ensure adequate ventilation.

especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any

potential exposure. Ensure all national/local regulation are

observed.

Personal Protective Equipment:

Gloves, protective goggles, protective clothing. Insufficient

ventilation: wear respiratory protection.









Materials for Protective Clothing:

Chemically resistant materials and fabrics. Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Safety glasses with side shields, or goggles, are recommended.

Skin and Body Protection: Not available

Respiratory Protection: Use a NIOSH- approved respirator or self-contained breathing

apparatus whenever exposure may exceed established

Occupational Exposure Limits.

Other Information: When using, do not eat, drink or smoke



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State Powder

Appearance White Powder

Odor No odor

Odor Threshold Not available

pH ~10 (saturated sol)

Evaporation Rate

Melting Point

Freezing Point

Boiling Point

Flash Point

Auto-ignition Temperature

Not available

Not available

Not available

Auto-ignition Temperature

Decomposition Temperature

Flammability (solid/gas)

Lower Flammable Limit

Upper Flammable Limit

Vapor Pressure

Relative Vapor Density at 20°C

Not available

Not available

Not available

Not available

Relative Density

Specific Gravity

Solubility

Partition Coefficient: N-octanol/water

Not available

1.42 g/cm3

Water: Slightly

Not available

Viscosity Not available

Explosion Data:

Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical

impact

Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static

discharge

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Hazardous reactions will not occur under normal conditions

10.2 Chemical Stability: Stable under recommended handling and storage conditions

(see section 7)

10.3 Incompatible Materials Strong acids, strong bases, strong oxidizers, halogenated

compounds, reactive metal powders.

10.4 Hazardous Decomposition Products: Carbon Oxides (CO, CO₂)



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects --- Product

Acute Toxicity:

LD50 and LC50 Data:

Skin Corrosion/Irritation:

PH:

Not classified

Not classified

Not classified

Not classified

Not classified

Serious Eye Damage/Irritation:
Respiratory or Skin Sensitization:
Not classified
Germ Cell Mutagenicity:
Not classified
Teratogenicity:
Not available
Carcinogenicity:
Not classified
Specific Target Organ Toxicity (Repeated Exposure):

Not classified

Reproductive Toxicity: Not classified Specific Target Organ Toxicity (Single Exposure):

Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged contact with large amounts of dust may cause

mechanical irritation.

Symptoms/Injuries After Skin Contact: Skin contact with large amounts of dust may cause mechanical

irritation.

Symptoms/Injuries After Eye Contact: Eye contact with dust may cause mechanical irritation. Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

11.2 Information on Toxicological Effects --- Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity No additional information available

12.2 Persistence and Degradability

Magnesium Hydroxide, Powder: Not established

12.3 Bio accumulative Potential

Magnesium Hydroxide, Powder: Not established
12.4 Mobility in Soil Not available

12.5 Other Adverse Effects

Other Information:

Avoid release to the environment



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SECTION 16: OTHER INFORMATION

13.1 Waste Treatment Methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional,

national, provincial, territorial and international regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 In Accordance with DOT	Not regulated for transport
14.2 In Accordance with IMDG	Not regulated for transport
14.3 In Accordance with IATA	Not regulated for transport
14.4 In Accordance with TDG	Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

No additional information available

No additional information available

15.2 US State Regulations

15.3 Canadian Regulations

Magnesium Hydroxide, Powder		
WHMIS Classification Uncontrolled product according to WHMIS classification criteria		
Magnesium Hydroxide (1309-42-8)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by CPR

SECTION 16: OTHER INFORMATION

Revision Date October 2020

Other Information: This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200.

Party Responsible for the Preparation of this Document:

GARRISON MINERALS

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 &WHMIS

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