GURVEY&BERRY
Ingredients for wellness, nutrition, beauty and more.

Material Safety Data Sheet.

1. IDENTIFICATION

Product Identifier: Magnesium Carbonate Hydroxide
Other Means of Identification:
Synonyms: Magnesium Carbonate Heavy Powder

Chemical Formula: x MgCO3 – y Mg(OH)2 - z H2O (x, y, z can vary)
Chemical Family:
CAS Number: 12125-28-9, 7760-50-1, 546-93-0, 23389-33-5 (USP), 39409-82-0 (FCC) etc. (dependent on x, y, z, values)

Recommended Use: Medicinal ingredient.

Initial Supplier Identifier: Gurvey & Berry Co. Inc.
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2. HAZARD IDENTIFICATION

GHS Classification in accordance with Hazardous Products Regulations (HPR) OR/2015-17)

Hazard class	Hazard class and category	Hazard statement
Eye damage/irritation	2B	H320

Pictograms: not required

Signal word: **Warning!**

Hazard statements
H320 Causes eye irritation.

Precautionary statements – prevention.

P264 Wash hands, skin, and contaminated clothing thoroughly after handling.
P280 Wear protective gloves/clothing and eye/face protection.

Precautionary statements – response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317	If eye irritation persists: Get medical help.

Hazards not otherwise classified (HNOC) or not covered by GHS.

Consider that powder may cause respiratory irritation. Avoid breathing dust. Prolonged skin contact may cause skin irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms
Magnesium Carbonate Hydroxide	12125-28-9, 546-93-0, 7760-50-1, 233139-33-5, 39409-82-0 etc.	ca 100%	See section 1

Notes:

4. FIRST-AID MEASURES

First aid measures by route of exposure:

General: Avoid breathing dust
Wash hands, skin, and contaminated clothing thoroughly after handling.
Wear protective gloves/clothing and eye/face protection.

After Eye Contact: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Do not allow victim to rub eyes or keep them closed.

After Skin Contact: Wash with plenty of water.
If skin irritation occurs: Get medical help.

After Inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.

After Ingestion: Rinse mouth. Give a glass of water to drink. Get medical help.

Most Important Symptoms and Effects, Acute and Delayed:

Symptoms/effects after inhalation of dust: Dry mouth and throat, coughing, shortness of breath.

Symptoms/effects after skin contact: May cause mild skin irritation, redness.

Symptoms/effects after eye contact: Causes eye irritation. Causes redness and pain, tearing.

Symptoms/effects after ingestion: If ingested in large quantities may cause abdominal discomfort, diarrhea.

Medical Conditions Aggravated By Exposure:

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Use extinguishing media suitable for ABC class fires.

Unsuitable Extinguishing Media: Do not use water jet.

Special Hazards Arising from the Product:
Decomposition Products – carbon monoxide, carbon dioxide and metal oxides.

Special Protective Equipment and Precautions for Fire-Fighters:
As in any fire, wear a self-contained breathing apparatus and full protective gear.

Further information. None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
No action shall be taken involving any personal risk or without suitable training.
Communicate hazard.
Evacuate unprotected personnel to safe areas.
Wear personal protective equipment. (see section 8).
Remove all sources of ignition.
Ensure adequate ventilation. Avoid breathing dust.
Prevent further leak or spill if safe to do so.
Wash hands thoroughly with soap and water after handling this material.

Methods and materials for containment and cleaning up

Small spill.

Wear Personal protective equipment (see section 8).
Prevent further spillage if safe to do so.
Spilled product should be removed immediately to avoid formation of dust.
Vacuum or gently moisten with water and collect into a sealable container for disposal.
Flush spill area with plenty of water (low pressure) into approved sewer.
Avoid formation of aerosols and dusts.
Ensure sufficient ventilation.
Dispose of containers in accordance with local, regional, and federal authority requirement.
Wash contaminated clothing.

Large spill.

Wear Personal protective equipment (see section 8).
Prevent further spillage if safe to do so.
Avoid generation of dusts. Ensure adequate ventilation. Avoid breathing dust.
Shovel. Use designated, labeled, closed waste containers for disposal.
Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Dispose of containers in accordance with local, regional, and federal authority requirement.

Environmental precautions
Do not let product enter drains and ground.

Reference to other sections
See section 1 for emergency contact.
See section 8 for information on appropriate personal protective equipment.
See section 13 for disposal.

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7. HANDLING AND STORAGE

Precautions for Safe Handling: Always wear personal protective equipment (see section 8)
Avoid contact with eyes, skin, and clothing.
Avoid ingestion and inhalation.
Use with adequate ventilation.
For precautionary statements see also section 2.2

Wash hands thoroughly after handling.
Do not eat, drink, or smoke in the area.

Conditions for Safe Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Protect from heat, moisture, and sunlight. Keep away from ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL	TWA	STEL
Magnesium Carbonate Hydroxide	**10 mg/m^3 (2004)** **3 mg/m^3 (inhalable dust)**	**N/A**	**N/A**	**N/A**

Appropriate Engineering Controls: Mechanical exhaust required.

Eyewash station and safety shower required.

Personal Protection Measures (e.g. personal protective equipment):

Eye/face protection Safety glasses with side-shields for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN (EU).

Skin and body protection Full body protective clothing, boots, gloves. Handle with gloves compatible with this material. Gloves must be inspected prior to use.

Respiratory protection If operations generate dust, use local ventilation or other appropriate Engineering controls to keep exposure contaminants

below the exposure limit. Be sure to use an approved /certified respirator with N95 cartridges.

For spills and/or emergencies of unknown concentrations, an approved self-contained breathing apparatus operated in the pressure demand mode is required.

Control of environmental exposure Do not let product enter drains or ground.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:	Powder
Color:	White
Molecular Weight:	No data available
Odour:	None
Odour Threshold:	No data available
pH:	about 10.4 (4% slurry)
Melting Point/freezing point:	2800^{o}C (as Magnesium Oxide, see section10)
Initial boiling point/boiling rage:	3600^{o}C (as Magnesium Oxide, see section10)
Flash Point:	Not applicable
Evaporation Rate:	No data available
Flammability (solid; gas):	No data available
Upper flammability or explosive limits	Not applicable to solids
Lower flammability or explosive limits	Not applicable to solids
Vapor Pressure (mmHg):	Not applicable to solids
Vapor Density (air=1):	Not applicable to solids
Relative Density (water=1):	No data available
Solubility in Water:	Practically insoluble
Solubility in Other Agents:	No data available
Partition coefficient (n-octanol/water)	No data available
Autoignition	No data available
Decomposition	No data available
Viscosity	Not applicable
Explosive properties	No data available
Oxidizing properties	No data available

Other information: None

10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No data available**.**
Conditions to avoid:	Exposure to moisture, light, and heat.
Incompatible materials:	Strong oxidizing agents

Hazardous decomposition products: formed under fire conditions – carbon monoxide, carbon dioxide and metal oxides.
Other decomposition products No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation: Yes
Skin contact: Yes
Eye contact: Yes
Ingestion: Yes

Acute Toxicity Oral LD_{50}: LD50 - Oral Rodent – mouse – over 5000 mg/kg
LC50 **–** no data available
Skin corrosion/irritation: May cause irritation with prolonged contact.
Serious Eye Damage/irritation: Causes eye irritation (Category 2B)
Respiratory and/or Skin Sensitization: No data available
Aspiration Toxicity: No data available
STOT (Specific Target Organ Toxicity) Single Exposure: No data available
STOT (Specific Target Organ Toxicity) Repeated Exposure: No data available
Carcinogenicity:
IARC Not listed
ACGIH® Not listed
OSHA Not listed
Reproductive Toxicity: No data available
Germ Cell Mutagenicity: No data available
Interactive Effects No data available

Additional Information None

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability:
No data available
Bioaccumulative potential:
No data available
Mobility in soil:
No data available
Other adverse effects:
No data available

13. DISPOSAL CONSIDERATIONS

Wastes of Residues: Package product wastes.
Close and label the waste receptacles and any unclean empty containers.
Dispose of according to local, provincial, and federal regulations**.**

Contaminated Packaging: Do not reuse containers. Dispose of as unused product.

14. TRANSPORT INFORMATION

Not dangerous goods for transport. Keep separated from foodstuffs.

15. REGULATORY INFORMATION

CANADA DSL/NDSL:
CAS # 7760-50-1 Magnesium Carbonate Hydroxide and
CAS#546-93-0 Magnesium Oxide are listed on the DSL.

16. OTHER INFORMATION

More detailed information on the physical and chemical properties can be requested from the supplier.
This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Gurvey&Berry Co., Inc. assumes no responsibility for incidental or consequential damages, including harm to health, lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Gurvey&Berry Co., Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

Created On: 15 October, 2021
Printed On: 19 October 2021

This document will only be updated as needed.