

MSDS

1.1 PRODUCT & COMPANY INFORMATION

Product name	Magnesium Hydroxide USP
INCI name	H2MgO2
Country of Origin	Japan
Product use	Food/Supplement/Cosmetic
Supplier	BOTANIC PLANET CANADA INC.
Address	2 Bram Crt Unit # 3 & 4 Brampton Ontario
Telephone number	905.455.4444
Emergency phone number	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

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

- none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : H₂MgO₂

Molecular weight : 58.32 g/mol
 CAS-No. : 1309-42-8
 EC-No. : 215-170-3

Component	Classification	Concentration *
magnesium hydroxide		
		<= 100 %
* Weight %		

SECTION 4: First aid measures**4.1 Description of first-aid measures****General advice**

Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Magnesium oxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures

General industrial hygiene practice.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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|---|----------------------|
| g) Flash point | ()No data available |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapor pressure | No data available |

- | | |
|--|-------------------------|
| l) Vapor density | No data available |
| m) Density | 2.360 g/cm ³ |
| Relative density | No data available |
| n) Water solubility | insoluble |
| o) Partition coefficient:
n-octanol/water | No data available |
| p) Autoignition
temperature | not auto-flammable |
| q) Decomposition
temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid


No data available

10.5 Incompatible materials

Strong oxidizing agents, Strong acids

10.6 Hazardous decomposition products

In the event of fire: see section 5



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral: No data available
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Test Type: reverse mutation assay
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative
Test Type: Chromosome aberration test in vitro
Test system: lymphocyte
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Carcinogenicity

ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Repeated dose toxicity - Rat - Oral - NOAEL (No observed adverse effect level) - \geq 1,000 mg/kg

RTECS: OM3570000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 511.31 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia magna (Water flea) - ca. 284.76 mg/l - 48 h
Toxicity to algae	static test EC50 - Scenedesmus capricornutum (fresh water algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	EC50 - activated sludge - > 1,000 mg/l (OECD Test Guideline 209)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

TDG

Not regulated as a dangerous good

IMDG

Not dangerous goods

IATA

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

16: OTHER INFORMATION

Date Created September 21 st , 2022
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BPC

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Certificate of Analysis COA

Product Name: Magnesium Hydroxide USP
 INCI Name: N/A
 Lot # BPCMUSP102022
 CAS # 39409-82-0
 Origin: JAPAN
 Best Before: December 2025

Properties	Specifications	Results
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MAGNESIUM HYDROXIDE USP

Properties	Specifications	Results
LOT No.	- 200205	Specification
Appearance	- Bulky powder	Bulky powder
Color	- White	White
Identification	- Meets	Meets Requirements
Loss on drying	% 0.6	2.0 max
Loss on ignition	% 31.5	30.0-33.0
Soluble salts	mg 4	10 max
Lead	ppm 0.1	1.5 max
Carbonate	- passes test	passes test
Calcium	% 0.3	1.5 max
Calcium oxide	% 0.4	1 max
Assay: Magnesium	% 40.0	38.0 min
Magnesium hydroxide	% 96.6	95.0-100.5(dry basis)
Magnesium hydroxide	% 96.0	93.1 min (as is)
Microbial test (E.coli)	- Negative	Negative
Arsenic	ppm 0.7	3 max
Bulk density	g/mL 0.34	0.2-0.5
		Test method
		Visual test
		Visual test
		USP
		USP
		USP
		ICP-MS
		USP
		ICP-AES
		ICP-AES
		Calculation
		USP
		Calculation
		USP
		ICP-MS
		USP

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