

Magnesium Hydroxide, USP

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
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1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Magnesium Hydroxide, USP	Distributor:	MakingCosmetics Inc.
Synonyms:	No data available	Address:	10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name:	Magnesium Hydroxide	Phone / Fax:	425-292-9502 / 425-292-9601
CAS Number:	1309-42-8	Web:	www.makingcosmetics.com
Formula:	Mg(OH) ₂		
Product Form:	Solid (Powder)		
Product Use:	Cosmetic use	Emergency Telephone Number:	1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Not classified.
GHS Labeling: Not a dangerous substance according to GHS.
GHS Hazard Pictograms: None.
GHS Hazard Statements: None.
GHS Precautionary Statements: None.
Potential Health Hazards: Eyes: Not expected to be an irritant.
 Inhalation: May be an irritant.
 Skin: Not expected to be an irritant.
 Ingestion: May cause nausea, vomiting, and diarrhea.

NFPA Ratings (704):

Health	0	Minimal
Flammability	0	Minimal
Reactivity	0	Minimal
Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Magnesium Hydroxide	1309-42-8	100%	Not available

4 FIRST AID MEASURES

Eyes: Flush with plenty of water. Get medical attention if irritation occurs and persists. Treat symptomatically and supportively.

Inhalation: May cause irritation of mucous membranes and upper respiratory tract. Symptoms include sore throat, coughing, shortness of breath and nasal irritation. In case of inhalation, remove person to fresh air. If breathing difficulty or discomfort persist, seek medical attention. Treat symptomatically and supportively.

Skin: Wash with water in case of irritation. Get medical attention if irritation occurs and persists. Treat symptomatically and supportively.

Ingestion: Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. May cause abdominal pain/or diarrhea. Acts as a laxative. No significant adverse health effects are expected to only small amount (less than a mouthful are swallowed). Wash out mouth with water provided person is conscious. Consult a physician if necessary. Treat symptomatically and supportively.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperatures. Use appropriate media for surrounding environment and adjacent fire. No unsuitable extinguish media listed.

Special protective equipment & precautions for firefighters: Wear self-contained breathing apparatus operated in positive pressure mode and full protective clothing, including eye protection and boots. Cool containers with water spray.

Flash Points:	Not applicable.
Specific hazards arising from the chemical:	When heated to decomposition forming magnesium oxide and water. This reaction does not create fire or explosion hazard. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	Scoop up and place in a suitable container for waste disposal or possible reuse. Avoid raising dust. Ventilate area and wash spill store after material pickup is complete. Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Keep containers tightly closed. Avoid bodily contact. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment.
Conditions for safe storage, incl. any incompatibilities:	Store in a dry, well-ventilated. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Magnesium Hydroxide	Not available		

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes:	Wear chemical safety goggles.
Inhalation:	In case of significant or accidental dust emissions, dust mask should be worn.
Body:	Wear protective gloves and body covering clothes and boots.
Other:	Use good personal hygiene practices. Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m ³ , respirable particles, and 10 mg/m ³ , inhalable particles (ACGIH recommendation for Particles (Insoluble or poorly soluble) Not Other Specified (PNOS)). Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Free flowing powder	Vapor Pressure:	N/A under standard conditions
Odor:	Odorless	Vapor Density:	N/A under standard conditions
Odor Threshold:	No data available	Oxidizing Properties:	Not oxidizing
Color:	White	Flammability:	Not flammable
Molecular Weight:	No data available	Upper/lower Explosive Limit:	No data available
pH:	Not determined	Flash Point:	Not applicable
Boiling Point:	Not applicable	Specific Gravity:	No data available
Melting Point/Range:	Not applicable	Water Solubility at 20°C:	1.78mg/l
Density at 20°C:	2.41 g/cm ³	Other Solubility:	Dilute Acids (exothermic reaction)
Bulk Density:	0.5 - 1.2 g/ml	Auto-Ignition Temperature:	No data available
Partition Coefficient: n-octanol/water:	Not applicable	Decomposition Temperature:	No data available
Viscosity:	Not applicable	Explosive Properties:	Not explosive

10 STABILITY AND REACTIVITY

Reactivity:	No reactive hazards known/expected.
Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	No data available.
Conditions to Avoid:	Heating above decomposition temperature.
Incompatible Materials:	Strong acids and anhydrides.
Hazardous Decomposition Products:	None.
Possible Hazardous Reactions:	Not expected to occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Skin:	Not an irritant.
Eyes:	Not an irritant.
Inhalation:	(Rat, Inhalation) LC50: >2.1 mg/L.
Ingestion:	(Rat, Oral) LD50: >2000 mg/kg (female).
Carcinogenicity:	
IARC:	Not classified by IARC.
NTP:	Not included in NTP 14 th Report on Carcinogens.
Teratogenicity:	No data available.
Germ Cell Mutagenicity:	Not mutagenic by the Ames Test. Not mutagenic in the mouse of Lymphoma L5178Y test system. Not a clastogenic in chromosome aberration test with human lymphocytes.
Embryotoxicity:	No data available.
Single Exposure (STOT):	No effects on specific target organs have been identified during acute toxicity studies.
Repeated Exposure (STOT):	NOEL 1000 mg/kg bw/day (4 week oral, rat). NOAEL 881 mg/kg bw/day (90 days oral, mice).
Reproductive Toxicity:	In a reproductive/developmental oral (gavage) toxicity study, the no-observed-adverse-effect-level (NOAEL) was 1000 mg/kg.
Respiratory/Skin Sensitization:	Not a skin sensitizer.
Aspiration Hazard:	Not expected to occur.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Aquatic Vertebrate:	(Fish) LC50; 96 hours; 775.8 mg/L.
Aquatic Invertebrate:	(Daphnia Magna) LC50; 96 hours; 170 mg/L
Algae:	(Freshwater algae) EC50; 72 hours; 100 mg/L.
Persistence and Degradability:	Biodegradation is not relevant for inorganic salts.
Bioaccumulative Potential:	Magnesium Hydroxide has no bioaccumulation potential.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	Does not meet the criteria for PBT or PvB assessment.
Other Adverse Effects:	No data available.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product.
Product Containers:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not regulated.
TDG (Transportation of Dangerous Goods, Canada):	No data available.
IMDG (International Maritime Dangerous Goods):	Not regulated.

IATA (International Air Transport Association): Not regulated.
ICAO (International Civil Aviation Organization): Not regulated.

15 REGULATORY INFORMATION

TSCA Inventory Status: Reported in the EPA TSCA inventory.
Canada (DSL): Listed.
EU (EINECS): Reported in EINECS.
China (IECSC): Listed.
Australia (AICS): Listed.
Japan (ENCS): ENCS no. 1-386.
Japan (ISHL): ISHL no. 1-386.
Philippines (PICCS): Listed.
Korea (KECI): Listed, no. KE-22716.
Mexico (INSQ): Listed.
Taiwan (TCSI): Listed.
Thailand: Listed.
New Zealand (NZIoC): Listed.

16 OTHER INFORMATION

Revision Date: 22-Jan-2025
Compliance: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.