

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Magnesium Hydroxide

CAS number 1309-42-8

Synonyms Magnesia magma; Magnesium Hydrate, Milk of Magnesia

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Corrosion/irritation Category 2
Serious Eye Damage/Eye Irritation Category 2
Specific target organ toxicity (single exposure) Category 3
Target Organs - Respiratory system.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Warning

Hazard statements Causes skin irritation.

Causes serious eye irritation. May cause respiratory irritation.

Precautionary statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists:

Get medical advice/attention.

Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal plant.

2.3 Hazardsnototherwise classified (HNOC) or not covered by GHS

None identified.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Magnesium hydroxidel	lagnesiamagma; MagnesiumHydrate,	1309-42-8	<=100%
	Milk of Magnesia		

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice Show this sheet to a doctor if medical advice is needed.

If inhaled Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if

symptoms occur.

In case of skin

contact

contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical

attention if symptoms occur.

In case of eye

Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Obtain medical attention.

If swallowed Do not induce vomiting. Obtain medical attention.

4.2 Mostimportantsymptoms and effects, both acute and delayed

No information available.

4.3 Indicationofanyimmediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Dry chemical.

Unsuitable extinguishing media None identified.

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors (magnesium oxides). Keep product and empty container away from heat and sources of ignition.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Flash Point No data available.

Autoignition Temperature No data available.

Explosion limits

Upper LowerdatSensitable to MechanicalNmpatet Senistivity to

Static Discharge NFPA No data available.

No data available.

Health	Flammability	Instability	Physical hazards
2	1	1	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and materials for containment and cleaningup

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

6.4 Reference to other sections

Refer to protective measures listed in Sections 7 and 8. See section 13 for proper disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

Hygiene measures

Handleinaccordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keepcontainerstightly closed in a dry, cool and well-ventilated place.

Incompatibilities

Powdered metals.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wearappropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection

Wearappropriate protective gloves to prevent skin exposure.

Body Protection

Wearappropriate protective clothing to prevent skin exposure.

Respiratory protection

Followthe OSHArespirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

Handleinaccordancewithgoodindustrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance White
Odor Odorless

Odor Threshold No information available

pH 9.5 - 10.5 (Slurry) 350

Melting Point/Range °C / 662 °F No

Boiling Point/Range information available No

Evaporation Rate information available No

Flammability (solid) information available

Flammability or explosive limit

Upper No information available
Lower No information available
Vapor Pressure No information available
Vapor Density No information available

Density 2.36 (H2O=1)
Solubility Insoluble in water

Partition coefficient: No information available

n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

No information available

Molecular Formula Mg(OH)2 Molecular Weight 58.32

VOC Content(%)

Oxidizing properties

No information available

No information available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Hygroscopic. Air sensitive.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Exposure to air. Exposure to moist air or water.

10.5 Incompatible materials

Powdered metals.

10.6Hazardous decomposition products

Magnesiumoxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

No acute toxicity information is available for this product.

Skincorrosion/irritation

Irritating to eyes, respiratory system and skin.

Seriouseye damage/eye irritation

Irritating to eyes, respiratory system and skin.

Respiratory orskin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Magnesium hydroxide	1309- 42-8	Not listed				

Specifictargetorgan toxicity - single exposure

Respiratory system.

Specifictarget organ toxicity - repeated exposure

None known.

Reproductive toxicity

No information available.

Chroniceffects

No information available.

11.2Additional Information

Thetoxicologicalproperties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Donotempty into drains.

12.2 Persistence and degradability

Noinformation available.

12.3Bio accumulative potential

Noinformation available.

12.4Mobility in soil

Noinformation available.

12.5Results of PBT and vPvB assessment

Noinformation available.

12.6 Endocrine disrupting properties

Noinformation available.

12.7 Other adverse effects

Noinformation available.

SECTION 13: Disposal considerations

13.1Waste Disposal Methods

Chemicalwaste generatorsmust determine whether adiscarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UNNumber Not regulated Proper Shipping nameNot regulated

Hazard Class None

Packaging Group Not regulated

Technical name Magnesium Hydroxide

IMDG

UN Number Not regulated

Proper Shipping nameNot regulated

Hazard Class None

Packaging Group Not regulated

Technical name Magnesium Hydroxide

IATA

UN Number Not regulated Proper Shipping nameNot regulated

Hazard Class None

Packaging Group Not regulated

Technical name Magnesium Hydroxide

SECTION 15: Regulatory information

US federal regulations

TSCASection12(b)Export Notification (40 CFR 707, Subpt. D)

Not listed/applicable.

CERCLAHazardousSubstance List (40 CFR 302.4)

Not listed/applicable.

SARA304Emergency release notification

Not listed/applicable.

OSHASpecificallyRegulated Substances (29 CFR 1910.1001-1053)

Not listed/applicable.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA302Extremely hazardous substance

Not listed/applicable.

SARA 311/312 Hazardous

Not listed/applicable.

SARA313(TRIreporting)

Not listed/applicable.

Other federal regulations

CleanAirAct(CAA)Section 112 Hazardous Air Pollutants (HAPs) List

Not listed/applicable.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not listed/applicable.

Safe Drinking Water Act

Not listed/applicable.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed/applicable.

US state regulations

US. Massachusetts RTK - Substance List

Not listed.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

California Proposition 65

Not listed.

SECTION 16: Other information

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SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.