

MATERIAL SAFETY DATA SHEET

**MILK OF MAGNESIA**

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**SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS**

PRODUCT: Milk of Magnesia U.S.P.

SYNONYMS: Magnesium Hydroxide Suspension

MOLECULAR FORMULA (M.W.):  $Mg(OH)_2$  (58.34) in an aqueous suspension.

CHEMICAL FAMILY: Antacid/laxative

<u>INGREDIENT (CAS #)</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Magnesium Hydroxide (1309-42-8)	8.0	N/A	N/A

**SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS**

BOILING POINT: N/A VAPOR PRESSURE: N/A

MELTING POINT: N/A VAPOR DENSITY: N/A

SPECIFIC GRAVITY: N/A EVAPORATION RATE: N/A  
(WATER = 1) (BUTYL ACETATE = 1)

WATER SOLUBILITY: Miscible WATER REACTIVE: No

APPEARANCE AND ODOR: Smooth, white, viscous liquid that is odorless or practically so.

**SECTION 3 - FIRE AND EXPLOSION DATA**

FLASH POINT (METHOD): N/A

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May produce toxic fumes if heated to decomposition.

**SECTION 4 - REACTIVITY HAZARD DATA**

STABILITY: Stable ( X ) Unstable ( )

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: May produce toxic fumes if heated to decomposition.

HAZARDOUS POLYMERIZATION: May Occur ( ) Will Not Occur ( X )

**SECTION 5 - HEALTH HAZARD DATA**

TOXICITY: Though magnesium is poorly absorbed following oral administration, there may be sufficient accumulation to produce toxic effects if given to a patient with impaired renal function. High blood concentrations may cause flushing of the skin, thirst, hypotension, blocking of neuromuscular transmission (with loss of reflexes), and respiratory depression.

CARCINOGEN LISTED BY:	NTP	Yes ( )	No ( X )
	IARC	Yes ( )	No ( X )
	OSHA	Yes ( )	No ( X )
	Other	Yes ( )	No ( X )

ROUTES OF ENTRY: Ingestion, contact.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

INHALATION: May cause irritation of the respiratory tract if aspirated.

EYE CONTACT: May cause irritation.

SKIN CONTACT: May cause irritation.

INGESTION: May cause gastrointestinal irritation, diarrhea.

CHRONIC EFFECTS OF OVEREXPOSURE: Prolonged use may lead to dependence on laxatives, excessive diarrhea, and gastrointestinal irritation.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Diarrhea (also see Toxicity above).

EMERGENCY FIRST AID PROCEDURES:

INHALATION: If aspirated, seek medical attention immediately.

EYE CONTACT: Flush with water for at least 15 minutes. If irritation persists or develops, seek medical attention.

SKIN CONTACT: Wash with soap and water. If irritation persists or develops, seek medical attention.

INGESTION: If a large amount is swallowed, seek medical attention.

## **SECTION 6 - CONTROL AND PROTECTIVE MEASURES**

RESPIRATORY PROTECTION: None normally required.

PROTECTIVE GLOVES: Rubber.

EYE PROTECTION: Safety glasses or goggles are recommended.

VENTILATION: Normal room ventilation is usually adequate.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK PRACTICES: Wash any contaminated clothing before reuse. Avoid wearing contact lenses when working with this material due to the possibility of increased severity of eye damage.

## **SECTION 7 - HANDLING AND STORAGE PRECAUTIONS**

HANDLING PRECAUTIONS: No special handling precautions.

STORAGE PRECAUTIONS: Avoid exposure to cold temperatures. Store in tight containers in a cool, dry place.

OTHER PRECAUTIONS: Do not subject to freezing temperature.

## **SECTION 8 - SPILL AND DISPOSAL PROCEDURES**

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear rubber gloves and safety glasses/goggles. Mop up spillage with an absorbent material and place in a tight container. Wash spill site with soap and water. Wash any exposed skin and wash contaminated clothing before reuse.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable local, state, federal, and environmental regulations.

<b>SECTION 9 - DISCLAIMER</b>
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**DEFINITIONS OF ABBREVIATIONS USED:**

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstract Service
IARC:	Internal Agency for Research on Cancer
IDLH:	Immediately Dangerous to Life or Health level
LC50:	Median Lethal Concentration
LD50:	Median Lethal Dose
N/A:	Not available
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value