



MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

1. PRODUCT NAME: Magnesium Hydroxide
2. CHEMICAL NAME:
3. SYNONYMS:
4. CAS NUMBER: 1309-42-8
5. COMPOSITION: Magnesium Hydroxide (1309-42-8), 99-100%

IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887

6. PROPERTIES: APPEARANCE: White powder.
ODOR: Odorless.
SOLUBILITY: Practically insoluble in water.
SPECIFIC GRAVITY: 2.36
PH: 9.5-10.5 Aqueous slurry.
% VOLATILES BY VOLUMES @ 21C (70F): 0
BOILING POINT: Not applicable.
MELTING POINT: ca 350C (ca. 662F) Decomposes.
VAPOR DENSITY (Air=1): No information found.
VAPOR PRESSURE (mmHg): No information found
EVAPORATION RATE (BuAc=1): No information found.
STABILITY: Stable under ordinary conditions of use and storage.
HAZARDOUS DECOMPOSITION PRODUCTION: No hazardous decomposition products.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: Acids, maleic anhydride, phosphorous and potassium.
CONDITIONS TO AVOID: Incompatibles.

7. HAZARDS: EMERGENCY OVERVIEW: CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.
HEALTH RATING: 1- Slight
FLAMMABILITY RATING: 0 – None
REACTIVITY RATING: 0 – None
CONTACT RATING: 1 – Slight
LAB PROTECTIVE EQUIP: GOGGLES; LAB COAT
INHALATION: May cause irritation to the respiratory tract. Symptoms may include coughing, sore throat, labored breathing, and chest pain.
INGESTION: May cause irritation to digestive tract. Excessive amounts of magnesium can cause CNS depression and respiratory paralysis which can be fatal.
SKIN CONTACT: May cause irritation with redness and pain. !
EYE CONTACT: May cause irritation, redness and pain.
CHRONIC EXPOSURE: No information found.
AGGRAVATION OF PRE-EXISTING CONDITIONS: Persons with impaired kidney function may be more susceptible to the effects of the substance.
NFPA RATINGS: Health: 1, Flammability: 0, Reactivity: 0
LABEL HAZARD WARNING: CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

8. FIRE FIGHTING FIRE: Not considered to be a fire hazard.
INFORMATION: EXPLOSION: Not considered to be an explosion hazard.
FIRE EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.



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SPECIAL INFORMATION: In the event of fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

9. PERSONAL AIRBORNE EXPOSURE LIMITS: Not established.

PROTECTION VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

MEASURES:

PERSONAL RESPIRATORS (NIOSH APPROVED): For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

SKIN PROTECTION: Wear protective gloves and clean body-covering clothing.

EYE PROTECTION: Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

10. FIRST AID INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

PROCEDURES: INHALATION: Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

SKIN CONTACT: Immediately flush skin with plenty of water for at least 15 minutes. Call a physician if irritation develops.

EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.

11. EXPOSURE NE
LIMITS:

12. TOXICOLOGICAL NE
INFORMATION:

13. ECOLOGICAL NE
INFORMATION:

14. DISPOSAL CONSIDERATIONS: Whatever cannot be saved be saved for recovery or recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of the product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

15. CARCINOGENIC None
PROPERTIES &
NOTIFICATIONS:

16. TRANSPORT Not Regulated
INFORMATION:

17. HANDLING & STORAGE: Keep in tightly closed container, stored in a cool, dry ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.



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18. ACCIDENTAL RELEASE MEASURES: Ventilated area of leak or spill. Wear appropriate personal protective equipment as specified. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust disposal.

19. REGULATORY INFORMATION:

Ingredient	-SARA 302-		-SARA 313-	
	RQ	TPQ	List	Chemical Catg.
Magnesium Hydroxide (1309-42-8)	100	100	Yes	No
			-RCRA-	-TSCA
Ingredient		CERCLA	261.33	8 (d)
Magnesium Hydroxide (1309-42-8)		No	No	No

Chemical Weapons Convention: No TSCA 12 (b): No CDTA: No
SARA 311/312: Acute: Yes, Chronic: No, Fire: No, Pressure: No
Reactivity: No (pure/solid)