



255 Norman.  
Lachine (Montreal), Que  
H8R 1A3

# Material Safety Data Sheet

**EMERGENCY NUMBERS:**

(USA) CHEMTREC : 1(800) 424-9300 (24hrs)  
 (CAN) CANUTEC : 1(613) 996-6666 (24hrs)  
 (USA) Anachemia : 1(518) 297-4444  
 (CAN) Anachemia : 1(514) 489-5711

WHMIS	Protective Clothing	TDG Road/Rail
WHMIS CLASS : D-2B		Not controlled under TDG (Canada). PIN: Not applicable. PG: Not applicable.

Section I. Product Identification and Uses			
Product name	<b>MAGNESIUM HYDROXIDE</b>	CI#	Not available.
Chemical formula	Mg(OH) <sub>2</sub>	CAS#	1309-42-8
Synonyms	Magnesium hydrate, AC-5544, 53728	Code	AC-5544
Supplier	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Formula weight	58.32
		Supersedes	
Material uses	For laboratory use only.		

Section II. Ingredients			
Name	CAS #	%	TLV
1) MAGNESIUM HYDROXIDE	1309-42-8	95-100	Not established by ACGIH

<b>Toxicity values of the hazardous ingredients</b>	MAGNESIUM HYDROXIDE: ORAL (LD50): Acute: 8500 mg/kg (Rat). 8500 mg/kg (Mouse). INTRAPERITONEAL (LD50): Acute: 2780 mg/kg (Rat). 815 mg/kg (Mouse).
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<b>Section III. Physical Data</b>	<b>MAGNESIUM HYDROXIDE</b>	page 2/4
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<b>Physical state and appearance / Odor</b>	Solid. (White amorphous powder. Odorless.)
<b>pH (1% soln/water)</b>	9.5-10.5 (aqueous slurry)
<b>Odor threshold</b>	Not available.
<b>Percent volatile</b>	0% at 21°C
<b>Freezing point</b>	Decomposes at 350°C.
<b>Boiling point</b>	Not applicable.
<b>Specific gravity</b>	2.36 (Water = 1)
<b>Vapor density</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Water/oil dist. coeff.</b>	Not available.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility</b>	Insoluble in cold water.

<b>Section IV. Fire and Explosion Data</b>
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<b>Flash point</b>	Not applicable.
<b>Flammable limits</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Fire degradation products</b>	Magnesium oxide.
<b>Fire extinguishing procedures</b>	Use DRY chemical, carbon dioxide, or alcohol-resistant foam. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode.
<b>Fire and Explosion Hazards</b>	The sensitivity to static discharge is not available. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.

<b>Section V. Toxicological Properties</b>
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<b>Routes of entry</b>	Inhalation and ingestion. Eye contact. Skin contact.
<b>Effects of Acute Exposure</b>	Harmful by ingestion, inhalation, or skin absorption.
<b>Eye</b>	Causes irritation.
<b>Skin</b>	Causes skin irritation.
<b>Inhalation</b>	Material is irritating to mucous membranes and upper respiratory tract. Exposure can cause coughing, chest pains, difficulty in breathing.
<b>Ingestion</b>	Laxative. Ingestion of large amounts may cause stomach pains and diarrhea.



### Section V. Toxicological Properties

MAGNESIUM HYDROXIDE

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**Effects of Chronic Overexposure** Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated. Medical conditions which may be aggravated: Individuals with impaired kidney function may be more susceptible to the toxicity of overexposure to this product.

### Section VI. First Aid Measures

**Eye contact** Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Call a physician.

**Skin contact** Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing.

**Inhalation** Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Call a physician.

**Ingestion** Seek immediate medical attention. Have conscious person drink several glasses of water or milk. Induce vomiting by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

### Section VII. Reactivity Data

**Stability** Unstable. Absorbs carbon dioxide from air. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.

**Hazardous decomp. products** Not available.

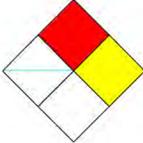
**Incompatibility** Strong oxidizing agents, acids. Reacts violently with potassium, phosphorous, maleic anhydride.

**Reaction Products** Not available. Hazardous polymerization will not occur.



<b>Section VIII. Preventive Measures</b>		MAGNESIUM HYDROXIDE	page 4/4
<b>Protective Clothing in case of spill and leak</b>	Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.		
<b>Spill and leak</b>	Evacuate the area. Sweep up and place in container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch spilled material.		
<b>Waste disposal</b>	According to all applicable regulations.		
<b>Storage and Handling</b>	Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe dust. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Avoid raising dust. Empty containers may contain a hazardous residue. Handle and open container with care. Minimize dust generation and exposure - use dust mask or appropriate protection. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling.		

<b>Section IX. Protective Measures</b>	
<b>Protective clothing</b>	Splash goggles. Impervious gloves, apron, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. If use conditions generate dusts, wear a NIOSH-approved respirator appropriate for those emission levels. Appropriate respirators may be a full facepiece or a half mask air-purifying cartridge respirator with particulate filters, a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator. Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.
<b>Engineering controls</b>	Local mechanical exhaust ventilation capable of minimizing dust emissions at the point of use. Do not use in unventilated spaces.

<b>Section X. Other Information</b>	
<b>Special Precautions or comments</b>	Irritant! Do not breathe dust. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Handle and open container with care. Container should be opened only by a technically qualified person. RTECS NO: OM3570000.
	 NFPA

Prepared by MSDS Department/Département de F.S..	Validated 16-Nov-2000
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**Telephone# (514) 489-5711**

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