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Texarkana, TX 75501  
903-831-7808

Magnesium Carbonate

Date Prepared: 01/17/00

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**SECTION 1 PRODUCT IDENTIFICATION**  
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**Product Name:** Magnesium Carbonate      **Chemical Formula:** 4MgCO<sub>3</sub>Mg(OH)

**Common Synonyms:** Magnesium Carbonate hydroxide; Magnesium carbonate basic

**Molecular Wt.:** 323.64                      **CAS No.:** 7760-50-1 (**USP CAS No:** 39409-82-0)

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**Emergency Telephone Numbers:**

Humco Holding Group      800-662-3435

Chemtrec                      800-424-9300

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**SECTION 2 COMPONENTS**  
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<u>Components</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Magnesium Carbonate	7760-50-1	100	Yes

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**SECTION 3 HAZARDS IDENTIFICATION**  
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**Emergency Overview**

**Caution!** May cause irritation to eyes and respiratory tract.

**HAZARD RATING SYSTEMS**

		KEY	4 = Severe
Health	1		3 = Serious
Flammability	0		2 = Moderate
Reactivity	0		1 = Slight
			0 = None

**Potential Health Effects**

**Inhalation:** May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

**Ingestion:** Magnesium carbonate is a food additive and non-toxic unless ingested in very large quantities. May cause diarrhea.

## Magnesium Carbonate

**Skin Contact:** No adverse effects expected. May cause mild irritation and redness.

**Eye Contact:** May cause irritation and redness.

**Chronic Exposure:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

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### SECTION 4

### FIRST AID MEASURES

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**Ingestion:** If large amounts were swallowed, give water to drink and get medical advice.

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty.

**Skin Contact:** Wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

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### SECTION 5

### FIRE FIGHTING MEASURES

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**Fire:** Not considered to be a fire hazard.

**Explosion:** Not considered to be an explosion hazard.

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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### SECTION 6

### ACCIDENTAL RELEASE MEASURES

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Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

**Spills:** Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

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### SECTION 7

### HANDLING & STORAGE

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Keep in a tightly closed container, store 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, solid); observe all warnings and precautions listed for the product.

## Magnesium Carbonate

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### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL): 15 mg/m<sup>3</sup> total dust  
5 mg/m<sup>3</sup> respirable fraction for nuisance dusts.

ACGIH Threshold Limit Value (TLV/TWA): 10 mg/m<sup>3</sup> total dust containing no asbestos and  
<1% crystalline silica for Particulates Not  
Otherwise Classified (PNOC).

**Ventilation:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. 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.

**Personal Respirators (NIOSH Approved):** If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece 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:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

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### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** White powder.

**Odor:** odorless

**Solubility:** 0.04 g/100ml water

**Specific Gravity:** 2.16

**pH:** NA

**% Volatiles by Volume @ 21°C (70°F):** 0

**Boiling Point:** NA

**Melting Point:** No information found.

**Vapor Density (Air=1):** No information found

**Vapor Pressure (mm Hg):** No information found

**Evaporation Rate (BuAc=1):** No information found

## Magnesium Carbonate

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### SECTION 10 STABILITY & REACTIVITY

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**Stability:** Stable under ordinary conditions of use and storage. Reacts with acids to liberate carbon dioxide.

**Hazardous Decomposition Products:** Forms magnesium oxide and carbon dioxide when heated to decomposition.

**Hazardous Polymerization:** Will not occur. **Incompatibles:** Formaldehyde.

**Conditions to Avoid:** Incompatibles.

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### SECTION 11 TOXICOLOGICAL INFORMATION

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No LD50/LC50 information found relating to normal routes of occupational exposure.

**Reproductive Toxicity:** See Chronic Health Hazards.

#### Cancer Lists

<u>Ingredient</u>	<u>NTP Carcinogen</u>		<u>IARC Category</u>
	<u>Known</u>	<u>Anticipated</u>	
Magnesium Carbonate (7760-50-1)	No	No	None

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### SECTION 12 ECOLOGICAL INFORMATION

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**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

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### SECTION 13 DISPOSAL CONSIDERATIONS

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Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this 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.

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### SECTION 14 TRANSPORTATION DATA & ADDITIONAL INFORMATION

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Not regulated.

## Magnesium Carbonate

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### SECTION 15 REGULATORY INFORMATION

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#### Chemical Inventory Status (Part 1)

Ingredient	TSCA	EC	Japan	Australia	Korea	Canada		
						DSL	NDSL	Phil.
Magnesium Carbonate (7760-50-1)	Yes	Yes	No	Yes	Yes	Yes	No	No

Ingredient	--SARA 302--		-----SARA 313-----		CERCLA	RCRA 261.33	TSCA 8(d)
	RQ	TPO	List	Chemical Catg.			
Magnesium Carbonate (7760-50-1)	Yes	Yes	No	No	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)

**Australian Hazchem Code:** No information found.

**Poison Schedule:** No information found.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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### SECTION 16 OTHER INFORMATION

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#### NFPA Ratings:

#### HAZARD RATING SYSTEMS

	KEY	4 = Severe
Health	1	3 = Serious
Flammability	0	2 = Moderate
Reactivity	0	1 = Slight
		0 = None

**Label Hazard Warning:** Caution! May cause irritation to eyes and respiratory tract.

**Label Precautions:** Avoid contact with eyes. Avoid breathing dust. Use with adequate ventilation. Wash thoroughly after handling. Keep container closed.

**Label First Aid:** If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes while lifting lower and upper eyelids. Call a physician if irritation persists.

**Product Use:** Laboratory Reagent.

