



**Fisher Scientific**  
CANADA

A Fisher Scientific International Company

# MATERIAL SAFETY DATA SHEET

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Magnesium carbonate anhydrous  
**Catalog Numbers:** AC413400000, AC413405000, S93288, M26-3, M27-12, M27-212, M27-500  
**Synonyms:** Carbonate magnesium; Carbonic acid magnesium salt; Magnesite.  
**Company Identification:** Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410  
**For information in the US, call:** 201-796-7100  
**Emergency Number US:** 201-796-7100  
**CHEMTREC Phone Number, US:** 800-424-9300

## Section 2 - Composition, Information on Ingredients

CAS#: 546-93-0  
Chemical Name: Magnesium carbonate  
%: 100  
EINECS#: 208-915-9

**Hazard Symbols:** None listed

**Risk Phrases:** None listed

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Caution! May cause eye, skin, and respiratory tract irritation. Target Organs: Respiratory system, eyes, skin.

### Potential Health Effects

**Eye:** Dust may cause mechanical irritation.  
**Skin:** May cause skin irritation. Low hazard for usual industrial handling.  
**Ingestion:** No hazard expected in normal industrial use. Used as antacid.  
**Inhalation:** May cause respiratory tract irritation.  
**Chronic:** Chronic, long-term exposure to dust may lead to "benign pneumoconiosis."

## Section 4 - First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.  
**Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.  
**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.  
**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.  
**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General** As in any fire, wear a self-contained breathing apparatus in pressure-demand,

**Information:** MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

**Autoignition Temperature:** Not applicable.

**Flash Point:** Not applicable.

**Explosion Limits:** Not available

**Lower:**

**Explosion Limits:** Not available

**Upper:**

**NFPA Rating:** health: 1; flammability: 0; instability: 0;

**Section 6 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

**Section 7 - Handling and Storage**

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:**  
Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Magnesium carbonate	none listed	10 mg/m3 TWA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

OSHA Vacated PELs: Magnesium carbonate: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

**Personal Protective Equipment**

**Eyes:** Wear appropriate 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:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.  
**Respirators:** Follow the OSHA respirator 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.

### Section 9 - Physical and Chemical Properties

**Physical State:** Solid  
**Color:** white  
**Odor:** odorless  
**pH:** Not available  
**Vapor Pressure:** 0 mm Hg @ 20 deg C  
**Vapor Density:** Not available  
**Evaporation Rate:** 0  
**Viscosity:** Not available  
**Boiling Point:** Not available  
**Freezing/Melting Point:** 350 deg C ( 662.00°F)  
**Decomposition Temperature:**  
**Solubility in water:** Insoluble  
**Specific Gravity/Density:** 3.04 g/cm3  
**Molecular Formula:** MgCO3  
**Molecular Weight:** 84.31

### Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	Dust generation, excess heat.
<b>Incompatibilities with Other Materials</b>	Strong acids, formaldehyde.
<b>Hazardous Decomposition Products</b>	Carbon dioxide, oxides of magnesium.
<b>Hazardous Polymerization</b>	Has not been reported.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 546-93-0: OM2470000  
**LD50/LC50:** RTECS: Not available.  
**Carcinogenicity:** Magnesium carbonate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
**Other:** See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

Not available

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14 - Transport Information

US DOT  
Shipping Name: Not regulated as a hazardous material  
Hazard Class:  
UN Number:  
Packing Group:  
Canada TDG  
Shipping Name: Not available  
Hazard Class:  
UN Number:  
Packing Group:

## Section 15 - Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 546-93-0: Not available

Canada

CAS# 546-93-0 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 546-93-0 is not listed on Canada's Ingredient Disclosure List.

### US Federal

TSCA

CAS# 546-93-0 is listed on the TSCA

Inventory.

## Section 16 - Other Information

**MSDS Creation Date:** 4/24/1998

**Revision #5 Date:** 6/22/2006

### Revisions were made in Sections: 9

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.