

## CHMNCA Manganese Carbonate

Material Safety  
Data Sheet**CHEMETALS****Chemicals  
Incorporated**Empire Towers  
7310 Ritchie Highway  
Glen Burnie, Maryland 21061  
301-768-6600  
TWX 710-861-0542**General  
Information**

Chemical Name	Manganese Carbonate	Formula	MnCO <sub>3</sub>
Trade Name	Manganese Carbonate, Regular and Extra Fine Grind		
Proper Shipping Name	Manganese Carbonate		
Manufactured by	Chemetals Incorporated		
Emergency Phone Number	301-789-8800	Date Form Issued	November 1985
CAS Number	598-62-9		

**Hazardous  
Ingredients**

Hazardous Material Description		Class
Manganese Carbonate	c 5 mg/m <sup>3</sup> OSHA ACGIH	100%
Material	TLV (Units)	%
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**General  
Physical Data**

Boiling Point 60 mmHg	Freezing Point	Specific Gravity (H <sub>2</sub> O = 1)
NA	Decomposes	3.125
Vapor Pressure at 20°C	Vapor Density (Air = 1)	Solubility in Water
NA	NA	.0065
Percent Volatile by Volume	Evaporation Rate	Odor
NA	NA	None
Appearance		pH
Light tan crystal		NA

**Fire and Explosion  
Hazard Data**

Flash Point (Test Method)	NA
Autoignition Temperature	NA
Upper Flammable Limits in Air (% By Volume)	NA
Lower Flammable Limits in Air (% By Volume)	NA
Extinguishing Media	CO <sub>2</sub> , dry chemical or water extinguishers.
Special Fire Fighting Procedures	CO <sub>2</sub> , dry chemical, or water extinguishers.
Unusual Fire and Explosion Hazards	No fire hazard as such.

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**Health Hazard Data**

Route(s) of Entry  
 Inhalation **Yes** Skin **No** Ingestion **No** Larger dust particles may be swallowed

Health Hazards (Acute and Chronic)  
**Acute:** Exposure to high concentrations of manganese fumes may cause metal fume fever. **Chronic:** Exposure to heavy concentrations of manganese dust or fumes for as little as three months may produce chronic manganese poisoning, but usually cases develop after 1-3 years of exposure.

Carcinogenicity  
 NTP **No** IARC Monographs **No** OSHA Regulated **No**

Signs and Symptoms of Exposure  
**Acute:** Metal fume fever: chills, fever, muscle aches, headaches, dry throat. **Chronic:** Sleepiness, weakness in the legs, muscular twitchings, nocturnal leg cramps, slowness of speech, languor.

Medical Conditions Generally Aggravated by Exposure  
 Higher incidence of respiratory infection and pneumonia.

Emergency and First Aid Procedures  
**Inhalation:** Remove to fresh air.  
**Ingestion:** Induce vomiting, drink water and consult physician.

**Reactivity Data**

Stability  
 Unstable  Stable  
 Conditions to Avoid  
 None  
 Hazardous Decomposition Products  
 None  
 Hazardous Polymerization  
 May Occur  Will Not Occur **NA**  
 Conditions to Avoid  
 Incompatibility (Materials to Avoid)  
**NA**

**Spill or Leak Procedures**

Steps to be Taken if Material is Released or Spilled  
 Does not present any unusual hazard other than what is described above. Sweep or shovel into waste disposal container.

Waste Disposal Method  
 Comply with local regulations per solids disposal.

**Special Protection Information**

Respiratory Protection  
 Use NIOSH approved respirators in dusty areas which exceed the TLV.  
 Ventilations  
 Local Exhaust **Yes** Mechanical **No** Special **No**  
 Other Ventilations  
**None**  
 Protective Gloves  
**Yes** Eye Protection  
**Yes** Other Protective Equipment  
**No**

**Special Precautions**

Precautions to be Taken in Handling and Storing  
 Store in clean dry area.

Other Precautions  
 None