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MATERIAL SAFETY DATA SHEET

MANGANESE CARBONATE

SECTION I - GENERAL INFORMATION

Revision Date: August 2007

Emergency Number: Chemtrec 800-424-9300 or 703-527-3887.

Information Number: 800-238-0001

Synonyms: None

CAS #: 598-62-9

OSHA Hazardous Substance: Yes

DOT Hazard Class: Not Regulated

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Manganese Carbonate 93 - 95%

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): 3.125

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS Cont'd

Percent Volatile by Volume(%): Not Applicable

Melting Point: Decomposes

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Negligible

Appearance and Odor: Light tan powder with slight acid odor.

pH: Not Applicable

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Decomposes

Flammable Limits: Not Applicable

Extinguishing Media:

Dry chemical and carbon dioxide extinguishers advised.

Special Fire Fighting Procedures:

Fire fighting procedure that is appropriate to treat surrounding fire.

Unusual Fire Explosion Hazard:

None found.

Auto Ignition Temperature: Not Applicable

SECTION V - REACTIVITY DATA

Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid: None found

Hazardous Polymerization:

Will not occur under normal conditions.

Hazardous Decomposition Products:

In the event of combustion, carbon monoxide, carbon dioxide and manganese fumes may be formed.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes Eye: Yes

Health Hazards:

Manganese Carbonate

EYE CONTACT: Can cause mild to moderate irritation depending on the duration of contact.

SKIN CONTACT: Can cause none to slight irritation depending on duration of contact.

INHALATION: Manganese content can cause mild to moderate irritation depending on the duration of contact.

Carcinogenicity:

Listed by ACGIH - No IARC - No NTP - No OSHA - No

Signs - Symptoms of Exposure:

Acute: Eyes: Redness , tear production of eyes.
Skin: Red, dry skin.
Inhalation: Pulmonary effects, consisting of dyspnea, shallow respiration and fever which mimic metal fume fever. Physical irritation to throat. Cold-like symptoms, chills and muscle aches, dryness of the mouth.

Chronic: Eyes: Conjunctivitis and corneal damage from irritant salts.
Skin: Papuloery thematous dermatitis.
Inhalation: Central Nervous System: Symptoms may appear after 1-2 years of elevated exposure.

Medical Conditions Aggravated by Exposure:

Higher incidence of respiratory infection and pneumonia; persons with a history of alcoholism, psychiatric, neurologic, or pulmonary diseases, liver dysfunction, or anemia.

Emergency First Aid Procedures:

EYES: Immediately flush for at least 15 minutes while holding eyelids open. Call a physician if irritation persists.

SKIN: Immediately flush skin with water for at least 15 minutes. For a large spill, flood body under a shower. Call a physician if irritation persists.

INGESTION: Induce vomiting. Give water. Call a physician immediately.

INHALATION: Remove to fresh air. Treat symptoms. Call a physician if symptoms persist.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having difficulty breathing or in convulsions, do not induce vomiting or give water.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:

Sweep or shovel material into waste disposal container. Flush area with water.

Waste Disposal Method:

Dispose of in accordance with all federal, state and local regulations.

Precautions to be Taken in Handling and Storage:

Avoid contact with skin, eyes and clothing. Avoid breathing dust or mist. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials.

SECTION VIII - CONTROL MEASURES

Respiratory Protection Type:

Respiratory protection is not normally needed since the volatility and toxicity are low. If significant dusts are generated, wear a NIOSH approved or equivalent respirator.

Ventilation Requirements:

Ventilate as necessary to eliminate dust from work area.

Protective Gloves, Clothing or Equipment Requirements:

Safety glasses are recommended to prevent dust contact to eyes. Impermeable gloves are recommended when handling all chemicals. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. The availability of an eye wash fountain and safety shower is recommended. The availability of an eye wash fountain and safety shower is recommended.

Work, Hygienic Practices:

As required to protect skin and eyes from dust. Safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

SECTION IX - FEDERAL REGULATORY INFORMATION

Reportable Quantities (RQ) Under EPA CERCLA: No

SARA Title III Information

Section 302 Extremely Hazardous Substance List: Not listed

Section 313 Toxic Chemical: Yes

CAS# 598-62-9 Manganese Carbonate 93-95%

Section 311/312 Hazard Category: Yes

Fire - No

Sudden Release of Pressure - No

Reactivity - No

Acute Health - Yes

Chronic Health - **Yes**

SECTION X - OTHER INFORMATION

National Fire Protection Association Rating (NFPA)

3/3	Health	0/0	Flammability
0/0	Reactivity	0	Other

Reason for issue: Changed Date

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