



**QUALIKEMS FINE CHEM PVT. LTD.**  
**5531, BASTI HARPHOOL SINGH, SADAR THANA ROAD, DELHI -06.**

Material Safety Data Sheet  
Manganese(II) carbonate hydrate, 90%

Section 1 - Chemical Product and Company Identification

**MSDS Name:** Manganese(II) carbonate hydrate, 90%

**Synonyms:** Hydrated manganese carbonate.

Section 2 - Composition, Information on Ingredients

| CAS#       | Chemical Name                   | Percent | EINECS/ELINCS |
|------------|---------------------------------|---------|---------------|
| 34156-69-9 | Manganese(II) carbonate hydrate | 90      | unlisted      |

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: pink to almost white powder.

**Caution!** May cause eye, skin, and respiratory tract irritation. May cause central nervous system effects. May cause lung damage. Hygroscopic (absorbs moisture from the air).

**Target Organs:** Central nervous system, lungs, reproductive system.

**Potential Health Effects**

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. In high doses, manganese may increase anemia by interfering with iron absorption.

**Inhalation:** Inhalation of dust may cause respiratory tract irritation. The lowest exposure concentration of manganese at which early effects on the CNS and the lungs may occur is still unknown. However, once neurological signs are present, they tend to continue and worsen after exposure ends.

**Chronic:** Chronic inhalation or ingestion may result in manganism characterized by neurological symptoms such as headache, apathy, and weakness of the legs, followed by psychosis and neurological symptoms similar to those of Parkinson's disease. May impair fertility. Other chronic effects from inhaling high amounts of manganese include an increased incidence of cough and bronchitis and susceptibility to infectious lung disease.

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Remove from exposure and move to fresh air immediately. 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 Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, 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:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Flash Point:** Not available.

**Autoignition Temperature:** Not available.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) 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. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**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 process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### Exposure Limits

| Chemical Name                   | ACGIH  | NIOSH   | OSHA - Final PELs   |
|---------------------------------|--|---|---|
| Manganese(II) carbonate hydrate | 0.2 mg/m <sup>3</sup> TWA (as Mn) (listed under Manganese, inorganic compounds). | 1 mg/m <sup>3</sup> TWA (as Mn) (listed under Manganese compounds, n.o.s.).500 mg/m <sup>3</sup> IDLH (as Mn) (listed under Manganese compounds, n.o.s.). | 5 mg/m <sup>3</sup> Ceiling (as Mn) (listed under Manganese compounds, n.o.s.). |
| Manganese carbonate anhydrous   | 0.2 mg/m <sup>3</sup> TWA (as Mn) (listed under Manganese, inorganic compounds). | 1 mg/m <sup>3</sup> TWA (as Mn) (listed under Manganese compounds, n.o.s.).500 mg/m <sup>3</sup> IDLH (as Mn) (listed under Manganese compounds, n.o.s.). | 5 mg/m <sup>3</sup> Ceiling (as Mn) (listed under Manganese compounds, n.o.s.). |

### 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 prevent skin exposure.

## Section 9 - Physical and Chemical Properties

**Physical State:** Powder

**Appearance:** pink to almost white

**Odor:** None reported.

**pH:** 6.0-6.5@5%aq.sol.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:**Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:**Not available.  
**Decomposition Temperature:**Not available.  
**Solubility:** insoluble  
**Specific Gravity/Density:**3.120 g/cm<sup>3</sup>  
**Molecular Formula:**CMnO<sub>3</sub>.xH<sub>2</sub>O  
**Molecular Weight:**114.95

#### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.

**Conditions to Avoid:** Dust generation, moisture, confined spaces.

**Incompatibilities with Other Materials:** Strong acids.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, oxides of manganese.

**Hazardous Polymerization:** Has not been reported.

#### Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 34156-69-9 unlisted.

**CAS#** 598-62-9 unlisted.

**LD50/LC50:**

Not available.

Not available.

**Carcinogenicity:**

**CAS#** 34156-69-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**CAS#** 598-62-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** The U.S. EPA stated that epidemiological studies of inorganic manganese compounds in humans indicate effects on the respiratory system at levels below 1 mg/m<sup>3</sup>.

**Teratogenicity:** No information found

**Reproductive Effects:** Men exposed to manganese dusts showed a decrease in fertility.

**Mutagenicity:** No information found

**Neurotoxicity:** Manganese is neurotoxic.

**Other Studies:**

#### Section 12 - Ecological Information

No information available.

### Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

### Section 14 - Transport Information

|                       | IATA          |  |
|-----------------------|---------------|--|
| <b>Shipping Name:</b> | Not regulated |  |
| <b>Hazard Class:</b>  |               |  |
| <b>UN Number:</b>     |               |  |
| <b>Packing Group:</b> |               |  |

### Section 15 - Regulatory Information

**Hazard Symbols:**

Not available.

**Risk Phrases:**

**Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.

### Section 16 - Additional Information

**MSDS Creation Date:** 9/02/1997

**Revision #2 Date:** 10/30/2004

**Revision #3 Date:** 09/29/2009

**Revision #4 Date:** 08/28/2014

**Revision #5 Date:** 07/27/2019

**Revision #6 Date:** 06/26/2024

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