

Material Safety Data Sheet

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24 Hour Emergency Assistance

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|---|----------------------|---|-------|-------|---|-----|------|-------|-----|-------|----|----|-----|---|----|---|---|---|---|---|
| Section 1 Identification | | | | | | | | | | | | | | | | | | | | |
| Product Number: | C2038 | | | | | | | | | | | | | | | | | | | |
| Product Name: | Manganese Chips, 99% | Health: | 1 | | | | | | | | | | | | | | | | | |
| | | Flammability | 0 | | | | | | | | | | | | | | | | | |
| | | Reactivity | 0 | | | | | | | | | | | | | | | | | |
| Trade/Chemical Synonyms | | Hazard Rating: | | | | | | | | | | | | | | | | | | |
| | | <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Lea</td> <td style="text-align: center;">Slig</td> <td style="text-align: center;">Moder</td> <td style="text-align: center;">Hig</td> <td style="text-align: center;">Extre</td> </tr> <tr> <td style="text-align: center;">st</td> <td style="text-align: center;">ht</td> <td style="text-align: center;">ate</td> <td style="text-align: center;">h</td> <td style="text-align: center;">me</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> </tr> </table> | | | | Lea | Slig | Moder | Hig | Extre | st | ht | ate | h | me | 0 | 1 | 2 | 3 | 4 |
| Lea | Slig | Moder | Hig | Extre | | | | | | | | | | | | | | | | |
| st | ht | ate | h | me | | | | | | | | | | | | | | | | |
| 0 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | |
| Formula: | Mn | NA = Not Applicable NE = Not Established | | | | | | | | | | | | | | | | | | |
| RTECS: | OO9275000 | | | | | | | | | | | | | | | | | | | |
| C.A.S | CAS# 7439-96-5 | | | | | | | | | | | | | | | | | | | |
| Section 2 Component Mixture | | | | | | | | | | | | | | | | | | | | |
| Sar a 313 | Component | CAS Number | % | Dim | Exposure Limits: | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Manganese Chips, 99% | CAS# 7439-96-5 | 100% | W/W | ACGIH TLV 5 mg/m ³ (ceiling) | | | | | | | | | | | | | | | |
| Section 3 Hazard Identification (Also see section 11) | | | | | | | | | | | | | | | | | | | | |
| Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed. | | | | | | | | | | | | | | | | | | | | |
| Section 4 First Aid Measures | | | | | | | | | | | | | | | | | | | | |
| Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. | | | | | | | | | | | | | | | | | | | | |
| Section 6 Accidental Release Measures | | | | | | | | | | | | | | | | | | | | |
| Sweep up and place in suitable (fiberboard) containers for reclamation or later disposal. | | | | | | | | | | | | | | | | | | | | |
| Section 7 Handling and Storage | | | | | | | | | | | | | | | | | | | | |
| Store in a cool dry well ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing. | | | | | | | | | | | | | | | | | | | | |
| Section 8 Exposure Controls & Personal Protection | | | | | | | | | | | | | | | | | | | | |
| Respiratory Protection: NIOSH/MSHA-approved respirator | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Ventilation: <input type="checkbox"/></p> <p>Local Exhaust: <input checked="" type="checkbox"/></p> </div> <div style="width: 45%;"> <p>Mechanical: <input type="checkbox"/></p> <p>Hand Protection: <input type="checkbox"/></p> <p>Eye Protection: <input type="checkbox"/></p> <p>Splash Goggles: <input type="checkbox"/></p> </div> </div> <p>Wear appropriate gloves to prevent skin exposure</p> | | | | | | | | | | | | | | | | | | | | |
| Other Protective Equipment: Wear appropriate clothing to prevent skin exposure | | | | | | | | | | | | | | | | | | | | |
| Section 9 Physical and Chemical Properties | | | | | | | | | | | | | | | | | | | | |
| Melting Point: | 2273°C | Specific Gravity: | 0.721 | | | | | | | | | | | | | | | | | |
| Boiling Point: | 3806°C | Percent Volatile by Volume: | 0 | | | | | | | | | | | | | | | | | |
| Vapor | 1 mm | Evaporati | N/A | | | | | | | | | | | | | | | | | |

Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

Section 5 Fire Fighting Measures

| | |
|--------------------------|--|
| Fire Extinguisher Type: | Dry Chemical |
| Fire/Explosion Hazards: | Thermal decomposition produces highly toxic fumes. |
| Fire Fighting Procedure: | Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing. |

Pressure Hg on Rate:
:

Vapor Density: Information not available
Evaporation Standard:

Solubility in Water: Insoluble
Auto ignition Temperature: Not applicable

Appearance and Odor: Grey, metallic chips
Lower Flamm. Limit in Air: Not applicable

Flash Point: Information Not Available
Upper Flamm. Limit in Air: Not applicable

Section 10 Stability and Reactivity Information

Stability: Stable
Conditions to Avoid: Moisture

Materials to Avoid:
Acids, Bases, Phosphorus, Halogens, Oxides of sulfur

Hazardous Decomposition Products:
Not known to occur

Hazardous Polymerization: Will Not Occur

Condition to Avoid: None known

Section 11 Additional Information

Effects of overexposure, Acute and Chronic: Harmful if inhaled or swallowed. May cause irritation. May cause reproductive disorders and nervous system disturbances. May cause cough, tight chest, low back pain. May cause weakness in legs. May cause languor and sleepiness. Conditions aggravated/target organs: Persons with pre-existing eye, skin or respiratory conditions may be more

| | | | |
|--|---|------------------------------|---------------------|
| | susceptible. | | |
| | DOT Classification: Not Regulated | | |
| | DOT regulations may change from time to time. Please consult the most recent version of the relevant regulations. | | |
| | Revision No:0.1 | Date Entered: 9/1/2006 | Approved by: WPF |

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