



Issued: 12/04/08

**1. Chemical Product and Contact Information**

<b>Product Name:</b>	<b>Iron Chip Accelerator</b>	<b>Part Numbers:</b>
		<b>501-077</b>
<b>LECO Corporation</b>		<b>502-231</b>
<b>3000 Lakeview</b>		<b>763-467</b>
<b>St. Joseph, Michigan 49085</b>		
<b>Information:</b>	<b>269-983-5531</b>	
<b>Chemtrec:</b>	<b>800-424-9300</b>	
<b>(Chemtrec Int'l:</b>	<b>703-527-3887)</b>	

**2. Composition/Information on Ingredients**

<u>Component</u>	<u>CAS No.</u>	<u>OSHA PEL (mg/m<sup>3</sup>)</u>	<u>ACGIH TLV (mg/m<sup>3</sup>)</u>	<u>Typical % by Weight</u>
Iron	7439-89-6	Not estab.	Not estab.	> 99
Iron oxide dust	1309-37-1	10	5	

**3. Hazard Identification****EMERGENCY OVERVIEW**

No unusual fire, spill or health hazard. Grey chips with no odor.

**Potential Health Effects**

EYES: Short-term irritation due to high dust concentration is possible.

SKIN: Pure iron dust on the skin presents little hazard as long as good personal hygiene is practiced.

INHALATION: Pure iron presents no inhalation hazard in the solid state, but operations causing fine dust or fume may present hazards.

INGESTION: Ingestion of considerable quantities of pure iron powder may cause vomiting, but is a low hazard for permanent injury.

MEDICAL CONDITIONS AGGRAVATED: Not available.

CHRONIC OVEREXPOSURE: Excessive exposure to iron dust or fume can result in nose and throat irritation or metal fume fever.

ACUTE OVEREXPOSURE: Prolonged exposure to iron dust or fume can result in siderosis, a type of benign deposition in the lungs.

CARCINOGENICITY: None.

**P/N: 501-077**

**4. First Aid Measures**

**EYES:** Flush the eyes immediately with plenty of water, lifting the lower and upper lids occasionally to ensure complete flushing. Get medical attention if irritation persists.

**SKIN:** Wash the skin using soap or a mild detergent and warm water. If irritation develops and persists, see a doctor.

**INHALATION:** Move exposed person to fresh air at once. Keep warm and at rest. If breathing has stopped, perform artificial respiration. Consult a physician as soon as possible.

**INGESTION:** Vomiting may occur naturally, but there is a low hazard for any permanent injury. If the person is conscious, give lots of water to drink and attempt to induce vomiting. Get medical attention immediately.

**5. Fire Fighting Measures**

**FLAMMABLE PROPERTIES:** Non-flammable.  
 Flash Point: None. Method Used: Not applicable.  
 Flammable Limits (% in Air by Volume):  
 Lower: None Upper: None.

**AUTO-IGNITION TEMPERATURE:** Not applicable.

**HAZARDOUS COMBUSTION PRODUCTS:** Not available.

**EXTINGUISHING MEDIA:** Dry chemical, dry sand, graphite, dolomite or sodium chloride.

**FIREFIGHTING INSTRUCTIONS:** Iron is not considered flammable under most conditions. If present as dust, hazard is moderate when exposed to heat or flame. Ignition temperature when in dust cloud is above 1292° F. (700° C.). Do not use water.

**6. Accidental Release Measures**

**SMALL/LARGE SPILL:**

1. Restrict the area to persons with respiratory protection only.
2. Ventilate the area.
3. Collect the spilled material using wet or vacuum methods to avoid creating dust in the air.
4. Recycle or dispose of as waste (see Section 13).

**7. Handling and Storage**

**HANDLING:** No special measures.

**STORAGE:** Store in a dry area, 0° to 100° F. (-18° to 38° C.). Keep container closed.

**8. Exposure Controls/Personal Protection**

ENGINEERING CONTROLS: Provide adequate ventilation to keep iron dust levels at a minimum using principles in the ACGIH manual "Industrial Ventilation".

RESPIRATORY PROTECTION: When control is not possible, follow OSHA 29 CFR 1910.132, 133 and 134. Use NIOSH/MSHA TC-21 approved respirator for concentrations of iron over the PEL.

SKIN AND HAND PROTECTION: Use gloves to minimize skin contact or skin creams when appropriate.

EYE AND FACE PROTECTION: Use dust-proof safety goggles for high dust levels. Do not permit contact lenses.

OTHER PROTECTIVE EQUIPMENT: Eating and smoking should not be permitted in areas where iron dust is present. The use of barrier cream to protect skin is recommended. Workers should wash before meals. They should bathe and change clothing before leaving work.

**9. Physical and Chemical Properties**

APPEARANCE: Grey chips.

BOILING POINT: 5432° F. (3000° C.)

FREEZE-MELT POINT: 2795° F. (1535 °C.)

VAPOR PRESSURE (mm): 0.02 @ 2795° F. (1535° C.)

VAPOR DENSITY (air = 1): Not volatile.

SOLUBILITY IN WATER: Not soluble.

SPECIFIC GRAVITY: 3.0 - 4.0

pH: Not available.

ODOR: None.

PERCENT VOLATILES: Not volatile.

EVAPORATION RATE (Butyl Acetate = 1): Not volatile.

**10. Stability and Reactivity**

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable.

INCOMPATIBILITY: Low reactivity with acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide.

HAZARDOUS POLYMERIZATION: None.

**11. Toxicological Information**

None reported.

**12. Ecological Information**

Recycling is successful at reducing the amount of waste going to the landfills as is incineration.

**13. Disposal Consideration**

Follow all federal and state EPA regulations and local ordinances in disposing of any quantity of the powder. Refer to EPA regulations 40 CFR 250 and consult regional EPA for proper disposal methods. If no regulations exist, dispose of powder in a landfill.

**14. Transportation Information**

U.S.A. DOT: Not regulated.

**15. Regulatory Information**

U.S. FEDERAL REGULATIONS:  
 TSCA STATUS: On Toxic Substance Control Inventory..  
 CERCLA REPORTABLE QUANTITY: None.  
 SARA TITLE III:  
     Section 302 Extremely Hazardous Substances: None.  
     Section 311/312 Hazardous Categories: Acute, Chronic.  
     Section 313 Toxic Chemicals: None.  
 RCRA STATUS: Not regulated.

CANADIAN REGULATIONS:  
 WHMIS: Not regulated.

RISK/SAFETY PHRASES:  
 R36/38 – Irritating to eyes and skin  
 S37/39 – Wear suitable gloves and eye/face protection

**16. Other Information**

**Hazard Index: (0 - 4, 4 = Extreme)**  
**Health: 1. Fire: 0 Reactivity: 0**

Prepared By:  
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*Information herein is given in good faith as authoritative and valid; however, no warranty, expressed or implied can be made.*