

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Iron (Powder, Accelerator, Standard)

AR 078, AR 077, AR 467, AR 673, AR 299, AR 300, AR 301, AR 302, AR 303, AR 304, AR 305, AR 306, AR 309, AR 310, AR 315, AR 318, AR 319, AR 322, AR 323, AR 468

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS NO.   | %W  | CHEMICAL NAMES | OSHA<br>PEL (mg/m3) | ACGIH<br>TLV (mg/m3) | NIOSH<br>TWA (mg/m3) |
|-----------|-----|----------------|---------------------|----------------------|----------------------|
| 7439-89-6 | 100 | Iron           | 15                  | 15                   | N/A                  |

## 3. HAZARD IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

EYES: Iron in eyes causes rust rings in cornea associated with irritation, hyperemia of conjunctiva and inflammation.

SKIN: May cause irritation or dermatitis in some individuals upon prolonged contact.

INHALATION: May cause slight hazard from inhalation.

INGESTION: Not available.

CHRONIC OVEREXPOSURE: Not available.

ACUTE OVEREXPOSURE: Not available.

MEDICAL CONDITIONS AGGRAVATED: Not available.

CARCINOGENICITY: None.

## 4. FIRST AID MEASURES

EYES: Flush with large amounts of water.

INHALATION: Removed to fresh air immediately.

SKIN: Wash skin with plenty of soap and water. Vacuum off excess dust. Avoid blowing particulate into the atmosphere.

INGESTION: Induce vomiting with two water. Never give anything by mouth to an unconscious person. Call a physician.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

Non-flammable

Flash Point: Not available

Flammable Limits: (% by Volume in Air): Lower: None Upper: None

AUTO-IGNITION TEMPERATURE: N/A

HAZARDOUS COMBUSTION PRODUCTS: Not available.

EXTINGUISHING MEDIA: Carbon Dioxide.

FIREFIGHTING INSTRUCTIONS: Strong heat, sparks or flame will initiate rapid oxidation, which in the presence of sufficient air, will proceed spontaneously to glow dull red. May ignite other combustibles. Excessive dust in air may present a moderate dust explosion hazard.

## **6. ACCIDENTAL RELEASE MEASURES**

SMALL/LARGE SPILL: Scoop up while avoiding dust generation. Follow federal state and local regulations. Cleanup personnel should wear respirators and protective clothing.

## **7. HANDLING AND STORAGE**

HANDLING: Avoid breathing dust. Use in a Nitrogen or Carbon Dioxide atmosphere.

STORAGE: Keep container closed.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

ENGINEERING CONTROLS: Use with adequate ventilation.

RESPIRATORY PROTECTION: Dust mask suggested.

SKIN AND HAND PROTECTION: None required.

EYE AND FACE PROTECTION: Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: As required.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: dull gray metal

BOILING POINT: 4982 F (2750 C)

FREEZE-MELT POINT: 2795 F (1535 C)

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SOLUBILITY IN WATER: Insoluble.

SPECIFIC GRAVITY:

pH: N/A

ODOR: None

PERCENT VOLATILES: N/A

EVAPORATION RATE: N/A

## **10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable.

INCOMPATIBILITY: Moist air, acids or oxidizing agent, Chlorine Trifluoride, Chlorine Fluorine or Chlorine Dioxide and Phosphorous.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION: None.

## **11. TOXICOLOGICAL INFORMATION**

No evidence of gross pathology.

## **12. ECOLOGICAL INFORMATION**

None available.

### **13. DISPOSAL CONSIDERATION**

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

### **14. TRANSPORTATION INFORMATION**

USA DOT: Not regulated by IATA. Not regulated, not dangerous, not hazardous, not restricted for transport by air

### **15. REGULATORY INFORMATION**

#### US FEDERAL REGULATIONS

TSCA STATUS: On toxic Substance Control Inventory

CERCLA Reportable Quantity: None

RCRA Status: Not regulated

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

#### CANADAIN REGULATIONS

WHMIS: Not regulated

### **16. OTHER INFORMATION**

Hazard Indes: (0-4, 4= Extreme)

Health: 0 Fire: 1 Reactivity: 1

#### SUPPLEMENTAL INFORMATION

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

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