

# Otto Chemie Pvt Ltd

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## MATERIAL DATA SAFETY SHEET

### Section 1: Chemical Product and Company Identification

#### **Ferrous oxide, 99.5%**

Name Ferrous oxide, 99.5%

**Catalog Codes:** F 0414

Chemical Formula: FeO

### 2. Hazards Identification

Signal Word: None

Hazard Statements: None

Precautionary Statements: None

HMIS Health Ratings (0-4):

Health: 1

Flammability: 0

Physical: 1

Chemical Family: Ceramic

Additional Names: Iron(II) oxide, Ferrous oxide, iron monoxide

Iron oxide (FeO):

Percentage: 100 wt%

CAS #: 1345-25-1

EC #: 215-721-8

### 4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None

Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Ingestion: Seek Medical Attention.

Skin: Wash affected area with mild soap and water. Remove any contaminated clothing.

Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

### 5. Firefighting Measures

Flammability: Non-flammable

Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.

### 6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

### 7. Handling and Storage

Handling Conditions: Handle under dry protective gas. Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store apart from materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit.

### **8. Exposure Controls and Personal Protection**

Permissible Exposure Limits: 1 mg/m<sup>3</sup>

as Fe, long-term value

Threshold Limit Value: 1 mg/m<sup>3</sup>

as Fe, long-term value

Special Equipment: None

Respiratory Protection: Dust Respirator

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long sleeves/pants.

### **9. Physical and Chemical CharacteristicsColor Black**

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless

Water Solubility: Insoluble

Boiling Point: N/A

Melting Point: 1369 °C

Flash Point: N/A

Autoignition Temperature: N/A

Density: 5.7 g/cc

Molecular weight: 71.85 g/mol

### **10. Reactivity**

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions: Air

Hazardous Decomposition Products: Metal oxide fume

### **11. Toxicological Information**

Potential Health Effects:

Eyes: May cause irritation

Skin: May cause irritation

Ingestion: May cause irritation

Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A

Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

### **12. Ecological Information**

Aquatic Toxicity: Low

Persistent Bioaccumulation Toxicity: No

Very Persistent, Very Bioaccumulative: No

### **13. Disposal Considerations**

Waste Disposal

Comply with Federal, State, and local regulation. If approved, remove to land disposal area.

### **14. Transportation Data**

Hazardous: Not hazardous for transportation.

Hazard Class: N/A

Packing Group: N/A

UN Number: N/A

Proper Shipping Name: N/A

**15. Regulatory Information**

Sec 302 Extremely Hazardous: No

Sec 304 Reportable Quantities: N/A

Sec 313 Toxic Chemicals: No

**16. Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

OSHA: Occupational Safety & Health