

**IRON OXIDE**

**SAFETY DATA SHEET**

**DATE OF LAST REVISION: 07/10/15**

**Section 1: Identification**

**Product Name:** Iron Oxide  
**Company:** Angstrom Sciences, Inc.  
40 South Linden Street  
Duquesne, PA 15110  
For more information call: 412-469-8466  
(Monday - Friday 9:00-5:00 EST)

**Section 2: HAZARD IDENTIFICATION**

**Signal Word:** Warning



**Hazard Statements:** H315: Causes skin irritation  
H319: Causes serious eye irritation  
H335: May cause respiratory irritation

**Precautionary Statements:** P261: Avoid breathing dust/fume/vapor  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P305 + P351 + P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - Continue rinsing  
P304 + P340: If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P405: Store locked up  
P501: Dispose of contents/container in accordance with local/regional/national/international regulations

**HMIS Health Ratings (0-4):**  
Health: 1  
Flammability: 0  
Physical: 1

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**Section 3: Composition/Information on Ingredients**

**Chemical characterization:** Ceramic

**Additional Names:** iron (II) Iron (III) oxide, iron (II, III) oxide, Ferrous ferric oxide, Ferrous Ferric oxide, Magnetite, black iron oxide, lodestone, rust, Iron (II) diiron (III) oxide

**Percentage:** 100 wt%

**CAS# Description:** 1317-61-9

**EC number:** 215-277-5

**Section 4: FIRST AID MEASURES**

**General Treatment:** Seek medical attention if symptoms persist.

**Special Treatment:** None

**Important Symptoms:** None

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

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

**Inhalation:** Remove to fresh air. If required, give artificial respiration. Seek medical advice.

**Ingestion:** Seek medical attention.

**Section 5: FIRE FIGHTING MEASURES**

**Flammability:** Non-Flammable, Except as powder

**Special 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.

**Extinguishing Media:** Do not use water for metal fires - use CO<sub>2</sub>, sand, extinguishing powder.

**Section 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.

**Environmental Precautions:** Isolate runoff to prevent environmental pollution.

**Section 7: HANDLING AND STORAGE**

**Handling Precautions for safe handling:** Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities** Store in a cool dry place in a tightly sealed container. 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.

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**Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

**Permissible Exposure Limits:** N/A  
**Threshold Limit Value:** N/A  
**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.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**

**Form:** Powder, Granules, Pellets, Sputtering target, Custom parts  
**Color:** Black  
**Odor:** Odorless  
**Water Solubility:** Insoluble  
**Boiling Point:** N/A  
**Melting Point:** 1538°C  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Density:** 5.2 g/cc  
**Molecular Weight:** 231.53 g/mol

**Section 10: STABILITY AND REACTIVITY**

**Reactivity:** Oxidizing agents  
**Chemical Stability:** Stable under recommended storage conditions  
**Incompatible Conditions:** None  
**Hazardous Decomposition Products:** Metal oxide fume, Iron oxides

**Section 11: TOXICOLOGICAL INFORMATION**

**Potential Health Effects:**

**Eyes:** Causes serious eye damage

**Skin:** Causes irritation

**Ingestion:** May cause irritation

**Inhalation:** May cause irritation

**Chronic:** N/A

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**Signs & Symptoms:** N/A  
**Aggravated Medical Conditions:** N/A  
**Median Lethal Dose:** N/A

**Section 12: ECOLOGICAL INFORMATION**

**Aquatic Toxicity:** Low

**Persistence Bioaccumulation Toxicity:** No

**Very Persistent, Very Bioaccumulative:** No

**Notes:** N/A

**Section 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state, national, and international regulations

**Section 14: TRANSPORT INFORMATION**

**Hazardous:** Not hazardous for transportation  
**Hazard Class:** N/A  
**Packing Group:** N/A  
**UN Number:** N/A  
**Proper Shipping Name:** N/A

**Section 15: REGULATORY INFORMATION**

**Sec 302 Extremely Hazardous:** No  
**Sec 304 Reportable Quantities:** N/A  
**Sec 313 Toxic Chemicals:** No

**Section 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.