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
Section 3: Composition/Information on Ingredients

**Chemical characterization:** Ceramic

**Additional Names:** iron (II) Iron (III) oxide, iron (II, III) oxide, Ferrous ferric oxide, Ferroso 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 CO₂, 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.
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
Autignition 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
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.