SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

**Product Name:** Barium Strontium Cobalt Ferrite

**Product Number:** All applicable American Elements product codes, e.g. BASRKO-FEIT-01-P

**CAS #:**

**Relevant identified uses of the substance:** Scientific research and development

**Supplier details:**
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

**Emergency telephone number:**
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

**Emergency Overview**

**OSHA Hazards**

**Target Organ Effect, Toxic by ingestion, Corrosive**

**Target Organs**

Heart, Nerves., Kidney, Gastrointestinal tract, Bone marrow, Spleen., Liver

**HMIS Classification**

Health Hazard: 3
Chronic Health Hazard: *
Flammability: 0
Physical hazards: 0
NFPA Rating
Health Hazard: 3
Fire: 0
Reactivity Hazard: 0

**Potential Health Effects**

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin may be harmful if absorbed through skin. Causes skin burns.
Eyes: Causes eye burns.
Ingestion: Toxic if swallowed. Causes burns.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Barium Strontium Cobalt Ferrite Powder
CAS: N/A

SECTION 4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties
Flash point not applicable
Ignition temperature no data available
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Evacuate personnel to safe areas.
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods for cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
SECTION 7. HANDLING AND STORAGE
Handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage

SECTION 8. EXPOSURE CONTROLS/PERSOONAL PROTECTION
Components with workplace control parameters
Value Control parameters Update Basis .
TWA 0.5 mg/m³ 1993-06-30 US. Department of Labor - Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL) 29 CFR 1910.1000 Air Contaminants.

TWA 0.5 mg/m³ 1989-03-01 US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A

TWA 0.5 mg/m³ 1996-05-18 US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)
Remarks
The agent (mixture , or exposure circumstance) is not classifiable as to its carcinogenicity to humans . 1996 Adoption Refers to Appendix A -- Carcinogens.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance
Form powder
Safety data
pH no data available
Melting point no data available
Boiling point no data available
Flash point not applicable
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
SECTION 10. STABILITY AND REACTIVITY

Storage stability
Stable under recommended storage conditions.

Conditions to avoid
Avoid moisture.

Materials to avoid
acids, Acid chlorides, Acid anhydrides, Reducing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Barium oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Intraperitoneal - mouse - 146 mg/kg

Irritation and corrosion
no data available

Sensitisation
no data available

Chronic exposure
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure
Cough, Shortness of breath, Headache, Nausea, Vomiting

Potential Health Effects
Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin May be harmful if absorbed through skin. Causes skin burns.
Eyes Causes eye burns.
Ingestion Toxic if swallowed. Causes burns.

Target Organs Heart, Nerves., Kidney, Gastrointestinal tract, Bone marrow, Spleen., Liver,

Additional Information
RTECS: CQ9800000

SECTION 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
no data available

Ecotoxicity effects
no data available

Further information on ecology
SECTION 13. DISPOSAL CONSIDERATIONS

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging
Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT (US)
UN-Number: 1884 Class: 6.1 Packing group: III
Proper shipping name: Barium oxide
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN-Number: 1884 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: BARIUM OXIDE
Marine pollutant: No

IATA
UN-Number: 1884 Class: 6.1 Packing group: III

SECTION 15. REGULATORY INFORMATION

OSHA Hazards
Target Organ Effect, Toxic by ingestion, Corrosive

DSL Status
All components of this product are on the Canadian DSL list.
SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components
Barium oxide, obtained by calcining witherite
CAS-No.
1304-28-5
Revision Date
1989-12-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
Barium oxide, obtained by calcining witherite
CAS-No.
1304-28-5
Revision Date
1989-12-01
New Jersey Right To Know Components  
Barium oxide, obtained by calcining witherite  
CAS-No.  
1304-28-5  
Revision Date  
1989-12-01  
California Prop. 65 Components  
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.