

# MATERIAL SAFETY DATA SHEET

CERAMICS/FERRITES

FILE NO.:  
DATE: 06/02/04

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Ceramic-8 (Ferrite-8)  
**SYNONYMS:** C-8  
**PRODUCT CODES:** 8505-19-0000 (HTS#)

**MANUFACTURER:** Alliance LLC  
**DIVISION:**  
**ADDRESS:** 1150 Eastport Center Dr.; Valparaiso IN, 46383

**EMERGENCY PHONE:** (219) 548-3799  
**CHEMTREC PHONE:**  
**OTHER CALLS:** (219) 628-0840  
**FAX PHONE:** (219) 548-7071

**CHEMICAL NAME:** Strontium Iron Oxide  
**CHEMICAL FAMILY:**  
**CHEMICAL FORMULA:** SrFe<sub>2</sub>O<sub>3</sub>

**PRODUCT USE:** Magnetic Materials  
**PREPARED BY:** Dan P. Vukovich

### SECTION 1 NOTES:

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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### INGREDIENT:

Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	82-85 %
Strontium Carbonate	SrCO <sub>3</sub>	14-17 %
Calcium Carbonate	CaCO <sub>3</sub>	0.4-1.2 %
Silica Di-Oxide	SiO <sub>2</sub>	0.5-1.0 %
Aluminum Oxide	Al <sub>2</sub> O <sub>3</sub>	0.2-0.8 %

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## SECTION 3: HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW:

**ROUTES OF ENTRY:** Ingestion

### POTENTIAL HEALTH EFFECTS

**EYES:** None

**SKIN:** None

**INGESTION:** None

**INHALATION:** None

**ACUTE HEALTH HAZARDS:** No Known acute health hazards. Not listed as carcinogen or potential carcinogen. Product may contain a slight amount of soluble Barium over time.

**CHRONIC HEALTH HAZARDS:** No Known chronic health hazards. Not listed as carcinogen or potential carcinogen. Product may contain a slight amount of soluble Barium over time.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None

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### CARCINOGENICITY

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OSHA: Not regulated  
OTHER:

ACGIH: No

NTP: No

IARC: No

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## SECTION 3 NOTES:

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## SECTION 4: FIRST AID MEASURES

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**EYES:** Rinse with water to remove particles or chips

**SKIN:** Wash hands after prolonged use if cutting or grinding product for re-fabrication

**INGESTION:** Epsom or glauber salts will convert any soluble Barium to harmless sulfate.

**INHALATION:** N/A

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** None

## SECTION 4 NOTES:

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR, UPPER:** Material is not flammable  
(% BY VOLUME)      **LOWER:** Material is not flammable

**FLASH POINT:** N/A

**F:**

**C:**

**METHOD USED:** N/A

**AUTOIGNITION TEMPERATURE:** N/A

**F:**

**C:**

**NFPA HAZARD CLASSIFICATION** N/A

**HEALTH:**

**FLAMMABILITY:**

**REACTIVITY:**

**OTHER:**

**HMIS HAZARD CLASSIFICATION** N/A

**HEALTH:**

**FLAMMABILITY:**

**REACTIVITY:**

**PROTECTION:**

**EXTINGUISHING MEDIA:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** None. Material is not a fire hazard.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Material will not ignite or explode

**HAZARDOUS DECOMPOSITION PRODUCTS:** None

## SECTION 5 NOTES:

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** N/A

## SECTION 6 NOTES:

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Material should be kept in a dry environment. Material is brittle and may chip if not handled with care. Surface dust may form over time.

**OTHER PRECAUTIONS:** N/A

### SECTION 7 NOTES:

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### ENGINEERING CONTROLS:

**VENTILATION :** N/A

**RESPIRATORY PROTECTION:** N/A

**EYE PROTECTION:** Safety Glasses

**SKIN PROTECTION:** Protective Gloves desirable for prolonged use if material is being remanufactured

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** No special protective clothing needed

**WORK HYGIENIC PRACTICES:** Clean after spilling as chips may develop. Clean hands after use.

**EXPOSURE GUIDELINES:** N/A

### SECTION 8 NOTES:

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Black color

**ODOR:** No odor

**PHYSICAL STATE:** Solid

**pH AS SUPPLIED:** Neutral

**pH (Other):**

**BOILING POINT:** None

F:

C:

**MELTING POINT:**

F: 2400 deg.

C: 1315 deg.

**FREEZING POINT:** N/A

F:

C:

**VAPOR PRESSURE (mmHg):** N/A

@

F:

C:

**VAPOR DENSITY (AIR = 1):** N/A

@

F:

C:

**SPECIFIC GRAVITY (H2O = 1):** 5.1

@

F:

C:

**EVAPORATION RATE:** N/A

**BASIS (=1):**

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

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SOLUBILITY IN WATER: Slight

PERCENT SOLIDS BY WEIGHT: N/A

PERCENT VOLATILE:  
BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC): None

WITH WATER: LBS/GAL  
WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT:  
VISCOSITY:

F:

C:

SECTION 9 NOTES:

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## SECTION 10: STABILITY AND REACTIVITY

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STABLE

UNSTABLE

STABILITY: Stable – no known incompatibilities

CONDITIONS TO AVOID (STABILITY): N/A

INCOMPATIBILITY (MATERIAL TO AVOID): None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Will not occur. None Known

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

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## SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: None

SECTION 11 NOTES:

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## SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: Material does not decompose

SECTION 12 NOTES:

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## SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Observe all federal, state and local regulations when disposing this material.

RCRA HAZARD CLASS:

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## SECTION 13: DISPOSAL CONSIDERATIONS (con't)

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Class 60, Ceramic Magnets

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT: None

### WATER TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENTS: N/A

### AIR TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENTS: N/A

OTHER AGENCIES:

SECTION 14 NOTES:

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: N/A

STATE REGULATIONS: N/A

INTERNATIONAL REGULATIONS: N/A

SECTION 15 NOTES:

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