

FLEXIBLE MAGNETIC MATERIALS | MATERIAL SAFETY DATA SHEET

ISO 9001 and ISO 14001 Certified
Version 1.0

Date of Preparation: August 20, 2003

SECTION 1. PRODUCT

Product Name: Flexible Magnets

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Strontium ferrite	12023-91-5	87-92
Chlorinated Polyethylene	64754-90-1	8-13

SECTION 3. HAZARDS IDENTIFICATION

Potential Health Effects

No health effects are expected in ordinary use. This product is essentially inert with very low oral or dermal toxicity. Processing or other use may release dust (as in cutting operations), or toxic or irritating fumes as when heated.

Eye:

Small pieces of material or dust generated during processing may scratch the eye and become a source of mechanical irritation.

Skin:

May cause skin irritation to some sensitive people.

Inhalation:

Dust generated during process may cause irritation to upper respiratory tract. Fumes generated during thermal decomposition may contain hydrogen chloride and possibly carbon monoxide. These gases will cause tearing and burning of the eyes. The fumes will also cause irritation to the upper respiratory tract, which in turn results in a sore throat and coughing in severe cases shortness of breath.

Ingestion:

No information on significant adverse effects.

IARC, NTP or OSHA Carcinogen:

Not listed.

SECTION 4. FIRST AID MEASURES

Eye:

Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention.

Skin:

Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention, if needed.

Inhalation:

Remove from exposure immediately. Perform artificial respiration if needed. Get medical attention.

Ingestion:

Get medical attention, if needed.

SECTION 5. FIRE FIGHTING MEASURES

Ignition Temperature:

Unknown

Flammability:

Material can be ignited by an open flame or other non-processing sources of ignition.

Hazardous combustion products:

Hydrogen chloride, carbon monoxide, organic acids, alcohols

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Extinguishing Media:

Water Fog, Foam, Dry Chemical, Carbon Dioxide.

Fire Fighting Instructions:

Use self-contained breathing apparatus and protective clothing to avoid exposure to hydrogen chloride and other fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Collect spilled material in appropriate container for reuse. For disposal, consult with federal, state and local authorities for compliance with laws.

SECTION 7. HANDLING AND STORAGE**Handling:**

Keep away from open flame or other non-processing sources of ignition. Avoid walking, jumping, climbing etc. on product. Avoid inhalation of product dust, fumes or smoke. Maintain good housekeeping. Remove accumulations of small particles and dust. Appropriate local exhaust is required for all processes where fumes, smoke or dust is generated.

Storage:

Keep away from contact with an open flame or other sources of ignition. Store material at ambient temperature, pressure and humidity

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION**Engineering Control:**

Use sufficient ventilation to keep employee exposure below recommended limits. Use static controls. Static charges can build up and ignite dust or solvent laden atmospheres.

PERSONAL PROTECTION**Eye Protection:**

Wear safety glasses during processes such as cutting that may generate small pieces of material or dust.

Skin Protection:

Wear gloves during handling to avoid skin irritation.

Respirators:

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge with a dust/mist filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

APPLICABLE EXPOSURE LIMITS**Strontium Ferrite**

PEL (OSHA) : 5 mg/m³
TLV (ACGIH) : Not Established

Inert or Nuisance Dust

PEL (OSHA) : 5 mg/m³
TLV (ACGIH) : Not Established

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Dark Brown Sheets or Strips
Odor : No odor
Specific Gravity : 3.6 – 3.8
Boiling Point : N/A
Melting Point : N/A
Freezing Point : N/A

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Vapor Pressure	:	N/A
Vapor Density	:	N/A
Evaporation Rate	:	N/A
PH	:	N/A
Solubility in Water	:	Negligible

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability:

Stable at normal temperatures and storage conditions.

Conditions to avoid:

Avoid open flames and high temperatures.

Decomposition:

Hazardous gases or vapors can be released, including carbon monoxide, hydrogen chloride (HCl), hydrocarbon oxidation products including organic acids, aldehydes and alcohols.

Polymerization:

Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

No specific data on this product. See Section 3 for potential health effects. For questions, write or call the address or number shown in Section 1.

SECTION 12. ECOLOGICAL INFORMATION

No specific data on this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Preferred options for disposal are (1) recycling, (2) incineration and (3) landfill. Incinerators must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

SECTION 14. TRANSPORT INFORMATION

This product is not regulated by the Department of Transportation.

SECTION 15. REGULATORY INFORMATION

TSCA:

The components of this product are included in the Toxic Substances Control Act Chemical Substances Inventory.

SARA Title III:

The components of this product are not subject to reporting requirements under Title III of the Superfund Amendments and Reauthorization Act of 1986.

SECTION 16. OTHER INFORMATION

None.

Disclaimer of Liability:

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these hazards are the only hazards, which exist. Final determinant of suitability of this material is the sole responsibility of the user. No representation or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the material to which the information refers. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

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