



## Section 1 - Product Name

**Product Name:** Epoxy Bonded Samarium Cobalt Magnet

## Section 2 - Hazardous Ingredients

**Chemical Name:** RE 2 TM 17 [Sm]<sub>2</sub> [Fe Cu Zr]<sub>17</sub>

**Material/Component(s):**

Material or Component	Weight %	CAS No.	ACGUH TLV (mg/m <sup>3</sup> )
Samarium (Sm)	20-30	7440-1-9	Not established
Iron (Fe)	10-20	7439-89-6	Not established
Copper (Cu)	2-12	7440-50-8	Not established
Zirconium	2-4	7440-67-7	Not established

## Section 3 - Physical Characteristics

**Vapor Pressure:** NA

**Vapor Density:** NA

**Specific Gravity:** 6.6

**Melting Point:** 1350 C

**Evaporation Rate:** NA

**Odor:** NA

**Solubility in Water:** Insoluble

## Section 4 - Fire and Explosion Hazard Data

**Flash Point:** NA

**FLAMMABLE LIMITS:** NA

**LEL:** NA

**UEL:** NA

**Extinguishing Media:** Dry sand or special powder extinguisher

**Special Fire Fighting Procedures:** Use a special powder extinguisher, or pour dry sand on the fire to cut off the oxygen supply. Water should be avoided at all costs.

**Unusual Fire and Explosion Hazards(s):** Flammable



## Section 5 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** NA

**Incompatibility (Materials to Avoid):** NA

## Section 6 - Health Hazard Data

**Health Hazards (Acute & Chronic):** Allergic skin irritations can occur on contact. Harmful if inhaled. Irritation of mucous membranes and epithelium of the respiratory organs. Dermal immune response may occur as result of repeated or long term exposure

### Emergency and First Aid Procedures:

Procedure For	Procedure
Skin Contact	Wash with soap and plenty of water.
Eye Contact	Immediately wash eye thoroughly with clean water for 15 minutes. Report abnormalities to a doctor.
Inhalation	Immediately gargle with clean water, get fresh air; report any abnormalities with your doctor.
Ingestion	Induce vomiting by finger, rinse mouth with clean water; report any abnormalities with a doctor.

## Section 7 - Precautions for Safe Handling and Use

**Spill Procedure:** Not a hazard as a solid compact magnet. Use protective gear. Place spillage into metal can and store in preparation for disposal.

**Waste Disposal Method:** Observe all federal, state and local regulations when disposing this material.

## Section 8 - Control Measures

**Respiratory Protection:** NA

**Eye Protection:** Safety goggles

**Skin Protection:** Protective gloves advisable

**Ventilation:** Ventilation via Local Exhaust

**Work / Hygienic Practices:** Protective clothing is advisable