



Section 1 - Product Name

Product Name: Epoxy Bonded Samarium Cobalt Magnet

Section 2 - Hazardous Ingredients

Chemical Name: RE 2 TM 17 [Sm]2 [Fe Cu Zr]17

Material/Component(s):

Material or Component	Weight %	CAS No.	ACGUH TLV (mg/m ³)
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