



Section 1 - Product Name

Product Name: Epoxy Bonded Samarium Cobalt Magnet (SAM Series)

Section 2 - Hazardous Ingredients

Chemical Name: RE 2 TM 17; RE - Sm, TM - Fe, Cu, Zr

Material/Component(s):

Material or Component	Weight %	CAS No.	ACGUH TLV (mg/m ³)
Samarium (Sm)	20-30	7440-19-9	NA
Iron (Fe)	10-20	7439-89-6	NA
Copper (Cu)	2-12	7440-50-8	NA
Zirconium (Zr)	2-4	7440-67-7	NA

Section 3 - Physical Characteristics

Vapor Pressure: NA

Vapor Density: NA

Specific Gravity: 6.6

Melting Point: 1350 C

Evaporation Rate: NA

Odor: None detectable

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

Hazardous Polymerization: Will not occur

Hazardous Decomposition or Byproducts : 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. Carcinogenicity - NTP? No IARC Monographs? No OSHA Regulated? No Signs and Symptoms of Exposure - None Medical Conditions Generally Aggravated by Exposure - None

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
Ingestion	Induce vomiting by finger, rinse mouth with clean water; report any abnormalities to a doctor
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Section 7 - Precautions for Safe Handling and Use

Spill Procedure: Not a hazard as a solid compact magnet. In case of spill, use protective gear and 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.

Precautions to be taken in Handling and Storing: Wear cotton gloves when handling. Keep away from heat sources. Store in a cool, dry place.

Section 8 - Control Measures

Respiratory Protection: NA

Eye Protection: Safety goggles



Skin Protection: Protective clothing and gloves advisable

Ventilation: Local exhaust

Work / Hygienic Practices: NA
