



**Epigentek Group Inc**  
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## SAFETY DATA SHEET

### Section 1. Identification

**Product Name** EpiMag HT (96-Well) Magnetic Separator (1/Pack)  
**Product No.** Q10002-1  
**Supplier** Epigentek Group Inc.  
110 Bi County Blvd. Ste 122  
Farmingdale, NY 11735

**In case of Emergency, call 911. For information about this SDS, please contact the manufacturer's technical support line at 1-631-755-0888.**

### Section 2. Hazard Identification

**Fatalness:** N/A for magnets themselves. Fine powders or dust are flammable.  
**Health Hazard:** Prolonged skin contact may cause irritation or allergic dermatitis.  
**Chemical Hazard:** Prolonged immersion in water and acid can form hydrogen.  
**Physical Hazard:** Magnets have very strong magnetic forces which make them attract to other magnets and other ferromagnetic materials such as iron or steel. This may result in injury during handling of magnets.

### Section 3. Composition, Information on Ingredients

Element Name	Molecular Formula	Weight %	CAS No.	EINECS No.
Neodymium *	Nd	20-33	7440-00-8	231-109-3
Praseodymium *	Pr	0-8	7440-10-0	231-120-3
Dysprosium *	Dy	0-6	7429-91-6	231-073-9
Terbium *	Tb	0-3	7440-27-9	231-137-6
Iron	Fe	62-70	7439-89-6	231-096-4
Boron	B	0.9-1.3	7440-42-8	231-151-2
Cobalt	Co	0-5	7440-48-4	231-158-0
Copper	Cu	0.01-0.5	7440-50-8	231-159-6
Aluminum	Al	0.01-0.8	7429-90-5	231-072-3
Nickel **	Ni	0-0.4	7440-02-0	231-111-4
Zinc **	Zn	0-0.2	7440-66-6	231-175-3

Note:

\* The total content of rare earth elements is 28-35 wt%.

\*\* These elements are contained in surface coatings.

#### **Section 4. First Aid Measures**

**Inhalation:** N/A for magnets themselves. When fine powders or dust are inhaled, go outdoors to breathe fresh air. Go see a doctor if any symptoms occur and/or persist.

**Skin Contact:** Wash thoroughly with soap and water. Go see a doctor if any symptoms occur and/or persist.

**Eye Contact:** Flush with running water until clear. Go see a doctor if any symptoms occur and/or persist.

**Swallowing:** Drink enough warm water and induce vomiting. Go see a doctor immediately if any magnet or fragment is stuck in body or any symptoms occur and/or persist.

#### **Section 5. Fire Fight Measures**

**Hazardous Combustion Products:** N/A.

**Extinguishing Media:** Dry chemicals without oxygen compounds or sand.

**Special Fire Fighting Procedures:** Isolate smoldering, burning powders. Do not use Halon or water.

**Unusual Fire and Explosion Hazards:** Fine powders will oxidize, smolder, and burn rapidly in the presence of air or oxygen. Magnets may spark on impact.

#### **Section 6. Accident Release Measures**

**Magnets:** N/A.

**Powders/Dust:** Sweep up released powders or dust with a damp mop or broom and store in water slurry or sealed container. Do not collect powders or dust with a vacuum cleaner.

#### **Section 7. Handling and Storage**

**Handling:** Wear gloves during long time handling. Magnets have very strong magnetic forces which make them attract to other magnets and other ferromagnetic materials such as iron or steel. Pay attention to hand or body injury. Keep magnets away from any floppy disk, magnetic card or electronic watch which may cause data loss or change. Keep magnets away from any person wearing electronic medical devices such as a heart pacemaker.

**Storage:** Store magnets in a cool and ventilated warehouse. Keep magnets away from humid and corrosive environments. Store magnetized products in a closed container with label.

**Additional Information:** Do not peel off the coating of a magnet otherwise it will cause rust or corrosion. Pay attention to powders or dust during machining which may cause fire.

#### **Section 8. Exposure Control and Personal Protection**

**MAC:** N/A.

**Engineering Controls:** Use wet machining processes and ventilation apparatuses during production.

**Respiratory Protection:** Wear mask or respirator during handling and/or machining.

**Skin Protection:** Wear protective gloves during handling and/or machining.

**Eye Protection:** Wear safety glasses or goggles during handling and/or machining.

**Additional Precautions:** Smoking, eating and drinking are prohibited in the working area.

#### **Section 9. Physical and Chemical Properties**

**Material Form:** Solid state Appearance: Metallic

**Melting Point:** Approx. 1200 °C

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Explosion:** N/A for magnets themselves. Fine powders or dust may be explosive.

**Specific Gravity:** 7.4 – 7.7

**Evaporation Rate:** N/A Odor:

**Odorless Solubility:** Insoluble in water, soluble in acids.

## Section 10. Stability and Reactivity

**Stability:** Stable in air.

**Incompatibility (Materials to Avoid):** Acids and highly active oxidizers.

**Conditions to Avoid:** High temperatures, open flames, humid and corrosive environments.

## Section 11. Toxicological Information

**Acute Toxicity:**

Neodymium (Nd)	TDL0	Blood 17 µg/kg (human)
Neodymium Oxides	LD	Oral 1000 mg/kg (human)
Cobalt (Co)	LD50	Oral 6170 mg/kg (rat)

**Irritation:** Prolonged skin contact may cause irritation or allergic dermatitis.

**Carcinogenicity:** N/A

**Chronic toxicity:** No record.

## Section 12. Ecological Information

**Ecotoxicity:** No record.

**Persistence and Degradability:** No record.

**Bioaccumulation:** No record.

**Mobility in Soil:** No record.

## Section 13. Disposal Considerations

**Waste Disposal Method:** Dispose in compliance with local regulations.

## Section 14. Transport Information

**Transportation Regulations:** Magnets by air transportation should be in compliance with IATA regulations. Packaging or containers with magnetized magnets inside should conduct a test and obtain a certificate for safe transport of goods.

**Transportation Considerations:** Check packaging or containers for completeness and sealing before shipping ensuring that they do not leak, collapse, or fall and get damaged during shipping.

Avoid sunlight, rain, high temperature, impact and friction. Avoid assorted packing with acids and oxidizers. Handle carefully to prevent packaging or containers from any damage.

## Section 15. Regulatory Information

Be in compliance with local regulations.

## Section 16. Other Information

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.*