

Material Safety Data Sheet (MSDS)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION			
Product Name:	Sintered NdFeB Magnet		
Supplier:	Bunting Magnetics Europe Ltd		
Address:	Northbridge road, Berkhamsted, Hertfordshire, HP4 1EH		
Normal hours call:	+44 1442 875081		
SECTION 2: INGREDIENTS			
Ingredients Name	CAS NO.	% by Wt	
Neodymium	7440-00-8	13~33%	
Dysprosium	7429-91-6	0~14%	
Aluminum	7429-90-5	0.1~1.2%	
Boron	7440-42-8	0.9~1.2%	
Iron	7439-89-6	60~71%	
SECTION 3: HAZARDS IDENTIFICATION			
Chemical Hazard:	Prolonged immersion in water and acid can form hydrogen.		
Health hazards:	Prolonged skin contact may cause irritation or allergenic dermatitis.		
Unusual fire and explosion hazards:	N/A for magnets themselves, Fine powders or dust are flammable.		
Physical Hazard:	It may result in injury during handling of magnets due to very strong magnetic forces it has.		
SECTION 4: FIRST AID MEASURES			
Eye Contact:	Flush with running water until clear. Go to see a doctor if any symptom occurs.		
Skin Contact:	Brush off powders and wash well with soap and water.		
Inhalation:	N/A for magnets themselves. When fine powders or dust inhaled, go outdoors to breathe fresh.		
If Swallowed:	Drink enough warm water and induce vomiting. Go to see a doctor immediately if any magnet cannot be got out of body.		
SECTION 5: FIRE FIGHTING MEASURES			
Flammable properties:	Not Applicable.		
Hazardous combustion products(A):	Not Applicable.		
Extinguishing media(S):	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: ACCIDENTAL RELEASE MEASURES			
Magnets:	Not Applicable		
Powders:	Sweep up released powders or dust with a damp mop or broom and store in water slurry or sealed containers.		
	Do not collect powders with a vacuum cleaner.		
SECTION 7: HANDLING AND STORAGE			
Wear gloves during long time handling.			
Magnets have very strong magnetic forces which make them attract to other magnets, ferromagnetic materials such as iron, 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 heart pacemaker.			
Store magnets in a cool and ventilated warehouse, keep magnets away from humid and corrosive environments.			
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
Skin Protection:	Wear protective gloves during handling.		
Eye Protection:	Wear safety glasses or goggles during handling.		
Respiratory Protection:	Wear mask or respirator during handling.		
Additional Precautions:	Smoking, eating and drinking are prohibited in the working area.		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Material Form:	Solid state		
Appearance:	Metallic		
Boiling Point:	Not Applicable		
Melting Point:	Approx 1200 °C		
Density:	7.4 – 7.7		
Vapor Pressure:	Not Applicable		
Odor:	Odorless		
Solubility:	Insoluble in water, soluble in acids		
Vapor Density:	Not Applicable		
SECTION 10: STABILITY AND REACTIVITY			
Stability:	Stable in air.		
Incompatibility (Materials to Avoid):	Acids, highly active oxidizers.		
Conditions to Avoid:	High temperature, open flames, humid and corrosive environments.		
SECTION 11: TOXICOLOGICAL INFORMATION			
Irritation:	Repeated and prolonged skin contact may cause irritation or allergic dermatitis.		
Carcinogenicity:	Not Applicable.		
Chronic toxicity:	No record.		
Acute Toxicity:	Neodymium (Nd)	TDL0	Blood 17 µg/kg (human)
	Neodymium Oxides	LD	Oral 1000 mg/kg (human)
SECTION 12: ECOLOGICAL INFORMATION			
Ecotoxicity:	No record.		
Bioaccumulation:	No record.		
Persistence and Degradability:	No record.		
Mobility in Soil:	No record.		
SECTION 13: DISPOSAL CONSIDERATIONS			
Waste Disposal Method:	Dispose in compliance with local regulations.		
SECTION 14: TRANSPORT INFORMATION			
Avoid sunlight, rain, high temperature, impact and friction.			
Avoid assorted packing with acids and oxidizers.			
Handle carefully to prevent packaging from damage.			
Transportation for magnetized Magnets shall be in compliance with IATA regulations, Packing instructions 953 This instruction applies to UN 2807, Magnetized material on passenger aircraft and Cargo Aircraft Only. Magnetized material will be accepted only when:			
(a) devices such as magnetrons and light meters have been packed so that the polarities of the individual units oppose one another;			
(b) permanent magnets, where possible, have keeper bars installed;			
(c) the magnetic field strength at a distance of 4.6 m (15 ft) from any point on the surface of the assembled consignment:			
(1) does not exceed 0.418 A/m (0.00525 gauss), or			
(2) produces a magnetic compass deflection of 2 degrees or less. .			
SECTION 15: REGULATORY INFORMATION			
Be in compliance with local regulations.			
SECTION 16: OTHER INFORMATION			
It shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.			
Bunting Magnetics Europe Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.			