



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Product Name: Ferrite Magnet  
Supplier's Name: Magnets New Zealand Limited  
Address: 140 Bush Road Albany, Auckland, New Zealand  
Department: Quality Department  
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### 2. Composition / Information on Ingredients

Ingredients: Lead Content (Pb) <19ppm  
Mercury Content (Hg) NONE  
Cadmium Content (Cd) NONE  
Hexavalent Chromium Content<Cr(VI)> NONE

### 3. Hazards Identification

**Routes of Entry:** Inhalation: NO Skin: NO Ingestion: NO  
Reports of Carcinogenicity: NTP:NO IARC:NO OSHA:NO

Health hazards acute and chronic: Not relevant. No health hazard.

A permanent magnetic field which does not exceed the limits specified in 49 cfr 173.21(d).

Explanation of Carcinogenicity: None  
Effects of Overexposure: None  
Medical Cond Aggravated by Exposure: None

### 4. First-Aid Measures

First aid: None required  
When touched, the skin would get dirty with black colour  
Skin: Wash with soap & water. Oral: Not likely to occur.

## 5. Fire-Fighting Measures

Extinguishing Media:

Dry sand or dry chemical powder. Do not use water, carbon dioxide gas, halogen gas and quenching liquid.

Fire-fighting Measures:

Incombustible in a solid state. However combustible in a dust or small particle state. In case of fire, cover with dried sand and move every combustible from fire areas.

## 6. Accidental Release Measures

Handling and storage precautions: Store in safe place.

Keep out of reach of children. Protect magnet against physical damage.

Other precautions: Do not crush, grind, cut, file or otherwise create dust from material used.

## 7. Handling and Storage

**Handling:**

- Wear protective gloves, in case of handling directly for a long duration.
- Be careful not to pinch fingers or any parts of your body, when handling and assembling magnets, because magnets generate very strong force attracting other magnets and other iron-containing material.
- Do not allow the magnet to come close to watches, floppy disk, or magnetic card, because it can destroy or alter the magnetic data.
- Do not allow the magnet to come close to a person having an electric / electronic medical device, such as pacemaker.

**Storage:**

- Store in a dry place free from corrosive atmosphere.
- Keep away from any possible contact with water.
- Store in a closed container made of non-magnetic material and state clearly outside 'Strong magnet inside'.

## 8. Exposure Controls / Personal Protection

Respiratory protection: None normally required.

Ventilation: Adequate

Protective gloves: None normally required.

Eye protection: None normally required.

Supplemental safety and health

Magnetic field in excess of 0.00525 gauss measured at 15 feet (4.6 meters) from any.

## 9. Physical and Chemical Properties

Physical State: Solid

Colour: Black

Melting Point: 1500K

Explosion Properties: N/A (May be dust explosive in case of dust)

Density: 4.8-4.9g/cm<sup>3</sup>

Solubility in water: Insoluble

## 10. Stability and Reactivity

Stability indicator/materials to avoid: Yes  
Stability condition to avoid: Breakage  
When in high temperature the magnetic field would disappear.

## 11. Toxicological information

Acute toxicity: N/A  
Local effects: N/A  
Chronic toxicity: N/A  
Carcinogenicity: N/A  
Mutagenicity: N/A  
Reproduction toxicity: N/A

## 12. Ecological information

Mobility: N/A  
Persistence/Degradability: N/A  
Bioaccumulation: N/A  
Bco-toxity: N/A  
Other data (ex. Ecological limit): N/A

## 13. Disposal consideration

Waste Disposal Methods: Recycling of magnets is recommended.

## 14. Transport information

Not a hazardous material for transportation.  
DOT regulations:  
Hazard class: None  
Land transport ADR/RID (cross-border)  
ADR/RID class: None  
Maritime transport IMDG:  
IMDG Class: None  
Air transport ICAO-TI and IATA-DGR:  
ICAO/IATA Class: None  
Transport/Additional information:  
Not dangerous according to the above specifications.

## 15. Regulatory information

Follow all regulations in your country.

## 16. Other information

Additional health hazard data:

N/A

Abbreviations:

N/A=Not Applicable

The above information relates to this specific material itself. It may not be valid for this material, if used in combination with any other material or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.

Quality Department  
Magnets New Zealand Limited  
9<sup>th</sup> February 2015