

MSDS REPORT

Applicant : **DONGGUAN JINCI MAGNETS CO.,LTD.**
Building 4, Xuan Yi Science and Technology Industrial
Park, South Five Village, Houjie Town, Dongguan City,
China

Manufacturer : **DONGGUAN JINCI MAGNETS CO.,LTD.**
Building 4, Xuan Yi Science and Technology Industrial
Park, South Five Village, Houjie Town, Dongguan City,
China

Product Description : **Nd-Fe-B Magnet**

Product Code : **N35-N52**

Trade Mark : **N/A**



This report is limited to the above applicant company and the product model only.





Report No.: NTS2211111M

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Product Name: Nd-Fe-B Magnet

Establishment / Revision: November 28, 2022

MATERIAL SAFETY DATA SHEET

(according to ISO 11014: 2009)

SECTION 1: Identification of Product and Supplier

1.1 Identification of the substance or preparation

Product Name: Nd-Fe-B Magnet

Sample Model No.: N35-N52

Client declaration: --

Trade Mark: N/A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the preparation: Adsorption and magnetic induction

1.3 Company / undertaking identification

Manufacturer: DONGGUAN JINCI MAGNETS CO.,LTD.

Address: Building 4, Xuan Yi Science and Technology Industrial Park, South Five Village, Houjie Town, Dongguan City, China

Tel: +86-0769-85081601

Fax: +86-0769-85081631

Email: Jinci-magnet@163.com

1.4 Emergency telephone

Emergency telephone number: [Weekday] +86-13377760066
[Night and holiday] +86-13377760066

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), H335

2.2 GHS Label elements, including precautionary statements



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Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Warning

Hazard statement(s)

- H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Supplemental Hazard Statements: none

SECTION 3: Composition / Information on Ingredients

3.1 Substance or preparation : Preparation

3.2 Information about the chemical nature of product :

Common chemical name / General name	CAS number	EINECS number	Concentration / Concentration range	Classification and hazard labeling
Neodymium (Nd)	7440-00-8	231-109-3	34 %	Health: 2 Flammability: 2 Reactivity: 1
Iron (Fe)	7439-89-6	231-096-4	64.5%	Health: 1 Flammability: 2 Reactivity: 1
Boron (B)	7440-42-8	231-151-2	1.5%	Health: 2 Flammability: 2 Reactivity: 0





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SECTION 4: Emergency measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes.
Consult a physician.

Skin contact : Wash off with soap and plenty of water.
Consult a physician.

Inhalation : If breathed in, move person into fresh air.
If not breathing, give artificial respiration.
Consult a physician.

Ingestion : Never give anything by mouth to an unconscious person.
Rinse mouth with water.
Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media

Use Class D extinguishing agents on fines, dust or molten metal.
Use coarse water spray on chips and turnings.

5.2 Special hazards arising from the substance or mixture :

Metal oxides: Boron oxides, Iron oxides, neodymium oxides

5.3 Advice for firefighters :

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information :





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no data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid dust formation.

Avoid breathing dust, vapours, mist or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections:

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Warning- this product contains permanent magnets. People wearing a pace maker or any other magnetizable medical implant should not use this product. Implants can be affected or damaged by a magnetic field.

Keep material dry.

Avoid generating dust.

Avoid contact with sharp edges or heated metal.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place.

Keep container tightly closed in a dry and well-ventilated place.





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Keep the magnet away from credit cards and electronic recording or other electronic devices.

Keep away from metal objects.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters:

8.2 Exposure controls:

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Personal protective equipment:

Eye/face protection:

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Working clothes. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls:



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Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Discharge into the environment must be avoided.

SECTION 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

- | | |
|---|---|
| a). Appearance: | Silvery Solid |
| b). Color: | Silvery |
| c). Odour: | Odourless |
| d). pH: | No data available |
| e). Melting point/freezing point: | > 1538 °C |
| f). Initial boiling point and boiling range: | > 2750 °C |
| g). Flash point: | No data available |
| h). Evaporation rate | No data available |
| i). Flammability: | No data available |
| j). Explosive properties: | No data available |
| k). Upper/lower flammability or explosive limits: | No data available |
| l). Vapour pressure (at 20°C): | No data available |
| m). Vapour density: | No data available |
| n). Density (at 20°C): | 7.4-7.65 g/cm ³ at 25 °C |
| o). Water solubility: | Insoluble |
| p). Partition coefficient: n-octanol/water: | No data available |
| q). Auto-ignition temperature: | No data available |
| r). Decomposition temperature: | No data available |
| s). Evaporation rate: | No data available |
| t). Oxidizing properties: | The substance or mixture is not classified as oxidizing |

9.2 Other safety information

No data available





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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No data available

10.2 Chemical Stability: Stable under recommended storage conditions

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: No data available

10.5 Incompatible materials:

Strong acids, Strong bases, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds, Oxygen, Nitrates, Halogens

10.6 Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Metal oxides: Boron oxides, Iron oxides, neodymium oxides

Other decomposition products - No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

LD 50 Oral – Mouse - > 5000 mg/kg

Skin corrosion/irritation:

No data available

Serious eye damage/eye irritation :

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified





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as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:

No data available

Specific target organ toxicity - single exposure: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological Information

12.1 Toxicity: No data available

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: no data available

12.5 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects :

Harmful to aquatic life.

SECTION 13: Waste handling

Disposal of product:

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.





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SECTION 14: Transport Information

14.1 UN number :

ADR/RID: --

IMDG: --

IATA: --

14.2 UN proper shipping name:

ADR/ RID: Not Dangerous goods

IMDG/ IMO: Not Dangerous goods

IATA/ ICA: Not Dangerous goods

14.3 Transport hazard class(es) :

Label: --

ADR/RID: --

IMDG: --

IATA: --

14.4 Packaging group :

ADR/RID: --

IMDG: --

IATA: --

14.5 Environmental hazards :

ADR/RID: no

IMDG: no

IATA: no

14.6 Special precautions for user : No data available

SECTION 15: Regulation Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

EU Directive 2006/66/EC

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

US Federal:

SARA:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.





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SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

OSHA: Not Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

WHMIS (Canada):

CLASS D-2A: Material causing other toxic effects.

SECTION 16: Other Information

The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.

Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use.

This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

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