

SDS Report

No.: GESDS1503104301

Date: 16 Mar 2015

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NINGBO GENESIS MAGNET TECHNOLOGY CO., LTD
NO.383-387 RENHE ROAD, ANDONG, HANGZHOU BAY NEW AREA, NINGBO ZHEJIANG 315327 CHINA

Sample Name : Neodym Magnet 10 mm Diameter x 2 mm Thick
End Uses : White Board Magnet, Office Magnet
Composition/Ingredient of sample : See Section 3 Information on ingredients on the SDS report
Preparation Period : 10 Mar 2015 - 16 Mar 2015

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : The contents and formats of the SDS are prepared in accordance with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010, and is provided per attached.

Signed for and on behalf of

Ningbo Genesis Magnet Technology Co., Ltd

宁波起源磁性科技有限公司
NINGBO GENESIS MAGNET TECHNOLOGY CO.,LTD

Approved Signatory

Safety Data Sheet

1907/2006/EC, 1272/2008/EC

Printing date 16.03.2015

Revision: 14.03.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Neodym Magnet 10 mm Diameter x 2 mm Thick
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:**
- White Board Magnet, Office Magnet
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** NINGBO GENESIS MAGNET TECHNOLOGY CO.,LTD
- **Full address:** NO.383-387 RENHE ROAD, ANDONG, HANGZHOU BAY NEW AREA, NINGBO ZHEJIANG 315327 CHINA
- **Phone number:** +86-574-63932320
- **Email:** edward@zzmagnet.com
- **Only Representative / other EU contact point:** Not available
- **Further information obtainable from:** NINGBO GENESIS MAGNET TECHNOLOGY CO.,LTD
- **1.4 Emergency telephone number:** +86-15258170196 Lu Chao
- **1.5 Reference Number:** GESDS1503104301

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.
- **Classification system:**
The classification is according to the latest edition of the Directive 67/548/EEC, 1999/45/EC and Regulation (EC) No. 1272/2008, and extended by company and literature data.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS08

- **Signal word** Danger

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· **Hazard-determining components of labelling:**

cobalt

· **Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P284 [In case of inadequate ventilation] wear respiratory protection.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see on this label).

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards:**

The following information was submitted by applicant:

Collision of magnetized products with strong magnetic strength may hurt people's fingers.

Magnetized products with strong magnetic strength have detrimental effects on electronic products, such as cell phones.

Magnetization of magnetized products may collide into pieces or harm people.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients










· **3.2 Mixtures**

· **Description:**

Mixture of the substances listed below with nonhazardous additions.

For the wording of listed risk phrases refer to section 16.

· **Composition:**

CAS: 7439-89-6 EINECS: 231-096-4	iron	65,0- 71,0%
CAS: 7440-00-8 EINECS: 231-109-3	neodymium  F R11-15-17  Flam. Sol. 2, H228; Water-react. 1, H260	24,0- 33,0%
CAS: 7429-91-6 EINECS: 231-073-9	dysprosi  um F  Flam. Sol. 1, H228	0-6,0%
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-002-00	aluminium	0,1- 2,0%
CAS: 7440-48-4 EINECS: 231-158-0 Index number: 027-001-00 -9	cobalt  Xn R42/43  Resp. Sens. 1, H334;  Skin Sens. 1, H317; Aquatic Chronic 4, H413	0,05- 1,5%
CAS: 7440-42-8 EINECS: 231-151-2	boron  Xn R22  Acute Tox. 4, H302	0,8- 1,2%

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CAS: 7440-03-1 EINECS: 231-113-5	niobium	0,1- 0,6%
CAS: 7440-50-8 EINECS: 231-159-6	cop per Aquatic Chronic 4, H413	0,05- 0,3%
CAS: 7440-55-3 EINECS: 231-163-8	gallium	0-0,2%

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed:**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water source.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.

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- Prevent formation of dust.
Move carefully with shaking-proof, collision-proof and rain-proof measures.
- **Information about fire - and explosion protection:**
Protect from heat.
Protect against electrostatic charges.
 - **7.2 Conditions for safe storage, including any incompatibilities**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Magnetized products should be packed with lining and shielding.
Products should be stored in ventilated, dry and anti-corrosion places.
 - **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

7440-48-4 cobalt (0,05-1,5%)

MAK (Germany)

einatembare Fraktion; vgl. Abschn. XIII

7440-42-8 boron (0,8-1,2%)

MAK (Germany)

Long-term value: 0,75E mg/m³

7440-50-8 copper (0,05-0,3%)

WEL (Great Britain)

Short-term value: 2** mg/m³

Long-term value: 0,2* 1**

mg/m³

*fume **dusts and mists (as Cu)

MAK

Long-term value: 0,01 A

mg/m³ als Cu

(Germany)

Short-term value: 2** mg/m³

Long-term value: 0,2* 1**

- **DNELs:** Not available
- **PNECs:** Not available
- **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

- **Appropriate engineering controls:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
See Section 7 for information about design of technical facilities.
- **Personal protective equipment**
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance**

Form:	Solid
Colour:	Lt-blue, silvery
Odour:	Odourless
Odour threshold:	Not available

· **pH-value:** Not available

· **Change in condition**

Melting point/Melting range:	Not available
Boiling point/Boiling range:	Not available
Freezing point:	Not available

· **Flash point:** Not available

· **Flammability (solid, gaseous):** Not available

· **Auto-Ignition temperature:** Not available

· **Decomposition temperature:** Not available

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits**

Lower:	Not available
Upper:	Not available

· **Oxidizing properties:** Not available

· **Vapour pressure:** Not available

i. **Density:** Not available

· **Relative density:** Not available

· **Vapour density:** Not available

· **Evaporation rate:** Not available

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- | | |
|---|--|
| · Solubility in / Miscibility with water: | Not available |
| · Partition coefficient (n-octanol/water): | Not available. |
| · Viscosity Dynami c: | Not available. |
| · 9.2 Other information | <p>Magnetic Field Strength (MFS) measurement – MFS at a distance of 4.60m(15 ft) from any points on the surface of the packing units:</p> <ul style="list-style-type: none"> · Does not exceed 0.00525 gauss(0.418 A/m), or · Produce a magnetic compass deflection of 2 degrees or less |

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** Data not available
- **10.2 Chemical stability:** Data not available
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:**
Keep away water and rain
Keep away iron-made goods
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values relevant for classification:		
7440-48-4 cobalt		
O	LD	6170 mg/kg (rat)
7440-42-8 boron		
O	LD	650 mg/kg (rat)
7439-89-6 iron		
O	LD	30000 mg/kg (rat)

- **Primary irritant effect**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitisation:**
Sensitisation possible through inhalation.
Sensitisation possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method based on the EU Directives 67/548/EEC, 1999/45/EC and Regulation 1272/2008/EC:
Harmful
Irritant
- **Toxicokinetics, metabolism and distribution:** No further relevant information available
- **Acute effects (acute toxicity, irritation and corrosivity):** No further relevant information available
- **Repeated dose toxicity:** No further relevant information available.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
No further relevant information available.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

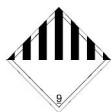
SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG** Not applicable
- **IATA** applicable

- **14.2 UN proper shipping name** Not applicable
- **ADR, IMDG** Magnetized

- **14.3 Transport hazard**)
- **ADR, IMDG**
- **Class** Not applicable
- **Label** -

- **IATA**



- **Class** 9 Miscellaneous dangerous substances and articles. 9
- **Label**

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· 14.4 Packing group · ADR, IMDG, IATA	Not applicable
· 14.5 Environmental hazards · Marine pollutant:	No
· 14.6 Special precautions for user: · Danger code (Kemler):	Not applicable. -
· 14.7 Transport in bulk according to Annex I MARPOL 73/78 and the IBC	I of Not applicable.
· 14.8 Transport/Additional information:	Packaging in such a way that polarities of the individual units oppose one another. Permanent magnetic, have keeper bars installed.
· ADR · Remarks:	Not regulated by ADR
· IMDG · Remarks:	Not regulated by IMDG

SECTION 15: Regulatory information

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

· MAK(German Maximum Workplace Concentration)

7440-48	cobalt	2
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· National regulations

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive regulations

· SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/12/2014)

None of the ingredients is listed

· REACH Regulation Annex XVII Restriction (2/3/2015)

None of the ingredients is listed

· REACH Regulation Annex XIV Authorisation List (14/8/2014)

None of the ingredients is listed

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Relevant phrases

H228 Flammable solid.

H260 In contact with water releases flammable gases which may ignite spontaneously.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H413 May cause long lasting harmful effects to aquatic life.

R11 Highly flammable.

R15 Contact with water liberates extremely flammable gases.

R17 Spontaneously flammable in air.

R22 Harmful if swallowed.

R42/43 May cause sensitisation by inhalation and skin contact.

R53 May cause long-term adverse effects in the aquatic environment.

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The contents and format of this SDS are in accordance with REGULATION (EC) No. 1272/2008, (EC) No. 1907/2006, REGULATION (EU) No. 453/2010 and EU Commission Directive 1999/45/EC, 67/548/EEC.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in anyway connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Remark:

* This sample is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for client's reference only.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Sol. 1: Flammable solids, Hazard Category 1

Flam. Sol. 2: Flammable solids, Hazard Category 2

Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

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