

Safety data sheet (SDS)

Date of issue 2024/11/27

1 Product and company identification

Product name Samarium-cobalt magnet
Size Any sizes
Company name Niigata Seiki Co., Ltd.
Add.: 5-3-14 Tsukanome, Sanjo-city, Niigata-pref. Japan zip 955-0033
Telephone 0256-33-5502
Facsimile 0256-33-5528

2. Hazards identification

[GHS classification]

Classification name Not classified as hazardous
CAS NO. Not applicable
Official gazette reference No. Not applicable
UN classification and nos. Not applicable

3 Composition/Information on ingredients

[Chemical character] Samarium cobalt intermetallic compounds sintered
Chemical state Samarium 25%
Composition Cobalt 51%
Iron 15%
Copper 5%
Zirconium etc. 4%
Chemical formula and structure $\text{Sm}_2(\text{Co,Fe,Cu,Zr})_{17}$
Plate composition Non-plate for standard product
JP official gazette reference No. No
UN classification and UN Nos. No

4. First aid measure

If inhalation N/A under normal conditions of use. But if you feel sick when inhaling dust occurred by processing, move to fresh air and keep at rest in comfortable position for breathing.
If skin N/A under normal conditions of use. But if molten, cool immediately in clean water, treat as ordinary burns. Under normal conditions of user, wash water with soap.
If in Eyes If you get a foreign objects (debris or dust) in your eyes, immediate rinse eyes with clean water. Do not rub eyes.
If there is a sensation of foreign matter, rinse the eyes thoroughly until the sensation disappears, and get medical attention immediately.
If swallowed If debris or dust is swallowed, induce vomiting by drinking water. Get medical attention if you feel unwell.

5 Firefighting measures

Suitable extinguishing media Water, powder extinguish agent, carbon dioxide gas, dry sand.
Unsuitable extinguishing media Not applicable

6 Accidental release measures

Personal precautions, protective equip- To avoid the high risk of magnetic field, magnets may affect the normal operation of
ment and emergency procedures implanted electronic medical devices, such as pacemakers.
Environmental precautions Collect in a sealable container and dispose of container as industrial waste.
Dispose of powder, powder, dust, etc. according to No. 13 Disposal conditions as described below.
Methods and materials for containment No special treatment required for solid state. If spilled, collect in container
and cleaning up. However, fine powder generated by processing, etc. should be removed with adequate ventilation and wearing protective equipment to avoid inhalation.

7 Handling and storage

[Precautions for safe handling]

Exposure control measures for operator Wear protective equipment such as long sleeves, long pants, and protective gloves during use or process if necessary.
Provide adequate ventilation to prevent inhalation of fumes during the process.
Do not place magnetic products such as magnetic cards or tape near this product

Suitable technical measures, including Keep away from fire and other ignition sources.
fire and explosion prevention

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[Storage precautions]

Incompatible chemical materials	No data
Storage conditions	Avoiding direct sunlight and long-term storage in high temperature and humidity.
(Conditions for safe storage, including any incompatibilities)	Store away from heat and ignition sources

8 Exposure controls and personal protection

[Exposure control]

Exposure limits	Not established
Tolerable Concentrations of Biological Indicators	Not established

[Individual protection measures]

Suitable protective equipment	Long sleeves, long pants, gloves, etc., should be used for protection during processing, if necessary.
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9 Physical and chemical properties

[Appearance]

Physical condition	Solid under general conditions
Form	Round, Ring, Square
Color	Silver
Odor	Odorless
Freezing point boiling point and range melting point and	No data
Flash point, auto ignition temperature	No data
Flammability upper and lower limit	No data
Vapor pressure/density	No data
Specific gravity (relative density)	8.5g/cm ³
Solubility	No data

[Others]

Reaction with water	Oxidizable
Oxidizing	Yes

10 Stability and reactivity

[Conditions to avoid]

Electrostatic discharge	Stable under normal condition of use and storage.
Shock · Vibration	Avoiding for brittle

[Incompatible materials] No data

[Hazardous decomposition materials] No data

11 Toxicological information

Acute toxicity	No data
Skin corrosiveness and irritation	Friction causes loss of sebum on the fingers and turns to red chafing.
Serious eye damage or irritation	No data
Respiratory or skin sensitization	No data
Germ cell mutagenicity	No data
Carcinogenic	No data
Reproductive toxicity	No data
Specific target organ toxicity Single expose	No data
Specific target organ toxicity repeat expose	No data
Absorption respiratory organs toxicity	No data

12 Ecological information

Ecotoxicity	No data
Persistence and degradability	No data
Bioaccumulative	No data
Mobility in soil	No data
Hazards to ozone layer	No data

13 Disposal considerations

[Safe and environmentally suitable disposal method]	In accordance with the law (Waste Disposal and Public Cleansing Law), consign disposal to an industrial waste disposal company licensed by the prefecture.
[Proper disposal of container and	Proper containers and packaging should be used in accordance with the instructions

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Packaging]

of the industrial waste disposal contractor.

14 Transport information

[Code international transport regulations and classification]

HS code

8505.11

Others

Load the cargo without tipping over or falling. Take preventive measures to prevent injuries due to collapses etc. Avoiding rough handling as it is easily crack

15 Regulatory information

Substance to be notify for Industrial safety and health law N/A

Substance to be labeled for Industrial safety and health law N/A

Poisonous and deleterious substances control law N/A

Pollutant Release and Transfer Register law (PRTR) N/A

Waste disposal and public cleaning law

Other local ordinances to be followed

16 Other information

Magnetic leakage precautions for air-transport cargo.

For General cargo transport, Does not exceed 0.418A/m (0.00525 gauss) or, Compass deflection of 2 degrees or less at a distance of 2.1m from appointed point.(In case e entire inside of the packaging of the magnet or magnet-embedded product is surrounded by a steel plate (0.5 mm or thicker) with no gaps)