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V# 0552168

Neodymium SDS

Chemical Product & Company Information

NdFeB，Ni Zn

Product Name：NdFeB magnet，Ni plating ，Zn plating.

Company: Master Magnetics, Inc.

Address: 747 S. Gilbert St Castle Rock, CO 80104

Department：QC

Telephone: 800-525-3536

No. ：2015-04

Edition：1.1

Hazards Identification

Major: 1) N/A

N/A in a state of solid.

2) Pellet and powder burn easily.

Physical and chemistry hazards: After dipping magnets in the water and acid for a long time, it can produce hydrogen.

Human body health: sensitive skin can develop a rash if come into contact with magnets for a long time.

Environment: After dipping magnets into the water and acid for a long time, it can deposit B (Boron).

Composition/Information on Ingredients

Grade: Neo35, Neo38, Neo40, Neo42, Neo45, Neo48, Neo50, Neo52

Component:

Item	element	content (Wt%)	CAS NO
Magnet	Nd	28-33	7440-00-8
	Fe	61-70	7439-89-6
	B	0.5-1.5	7440-42-8
	Dy	1.5-5.0	7429-91-6
	Te	0.3-0.7	12008-31-0
	Others	Sub	
Planting	Ni（≥10μm）、Zn（≥5μm）		

	Ni(thickness≥10μm)、Zn(thickness≥5μm)

Nd-Fe-B

Chemical symbol：Nd-Fe-B

Pernicious or harmful substance：B (Boron)

First Aid Measures

Inhalation:

1) N/A

N/A in a state of solid.

2)If inhale powder and pellet during the process or operation,we must clean our nostril and throat with lukewarm wat er see a doctor if necessary.

Skin:

1) N/A

N/A in a state of solid.

2) If come into contact with powder or pellet, clean our hands with soapsuds see a doctor if necessary.

Eyes: wash it with clear water, see a doctor if neccssary.

Swallow: spit it at once and induce vomiting, see a doctor if necessary.

Fire Fighting Measures

The method putting out a fire: dry sand or chemical powder.

Fire-retardant measure:don't fire in a state of solid. But pullet and powder easily burn,in case the condition of a fire h appens, cover it with dry sand and remove any substances that from the spot burn easily.

Accidental Release Measures

Method: in a state of solid.

1Store in the closed container.

In a state of pellet and powder.

1) Keep ventilation rightly.

2) Store in the closed container.

Person/individual: Be sure not to make magnets near the personage who comes electric medical apparatus and instruments.

Environment: nothing.

Handling and Storage

Operation:

The person who operates magnets with your hands need to wear the glove.

The magnet can attract other magnets or iron and steel,

so we pay attention not to pinch our hands during the assembly harm to health.

Be sure not to make magnets near the diskette, electron watch or magnetic card,

unless can result in date lose and change.

Be sure not to make magnets near the personage who comes electric medical apparatus and instruments.

Storage:

stay out dry environments that save up corrosive gas.

Stay out the source of water.

Magnetism products shonld store in a closed container and should stick on a eye-catching label outer.

Others:

Don't get rid off coating or the magnetic material will become rusty.

Magnet powder or pellet produced during the cut metal can give rise to fire.

Exposure Controls/Personal Protection

Engineering measure:owing to produce powder and pellet during the process,machines can use in a ventilation enviro nment.

Guiding method: N/A.

Personal protection during the production:

Breath: N/A(donning dustproof breathing apparatus during the process)

Skin: wear rubber gloves or plastic gloves.

Eye: N/A(wear protective glasses during the process)

Physical and Chemical Properties

Physical: solid

Color: white

Melting point: 1480℃

Explosion: N/A(explosion is possible in a state of powder)

Density: 7.4-7.6 g/cm3

Dissolution: don't dissolve in the water.

Dissolution: dissolve in the acid.

Note: immersing magnet in the water and in the acid, it will rust and resolve release B (Boron).

Stability and Reactivity

Stability: stable in the neutral atmosphere.

Oxidize in the water and oxygen slowly.

React on acid, oxide as well as halogen.

Avoidable surrounding: don't use and store magnets in the under mentioned environments:

Acidity, Alkaline, organic solvent, water and oil, conductance liquid, hydrogen as well as corrosive gas and reserved ray.

Toxicological Information

Acute toxicity: N/A

But when content of Nd comes up to the following numerical value, the magnet will be hypertoxic.

Nd: blood TDL 17μg/kg

Oxide of Nd: mouth LD 1000mg/kg

Regional: N/A

Carcinogenic: N/A

Regeneration: N/A

Experiments according to the provisions set by IATA DGR, the maximum field strength of this packaged material obs erved at distance of 2.1 im is not more than 0.418A /

M <0.00525 GAUSS> or the compass needle is not more than 2 degrees.

Ecological Information

Spreading: N/A

Durative/degradability: N/A

Accumulate inner the bion: N/A

Others (such as ecology limitation): N/A

Disposal Considerations

Modes of handling: store in the closed container that makes of nonmagnetic material.

Stay out the source of water.

The magnet should be bumped, unless it can give rise to fire in a burn environment.

If you want to recycle , please make contact with us.

Handling foundation: handling must abide by nation correlation laws and regulations association and local.

Transport Information

Packing modestly and avoiding clash.

Avoiding high temperature and high wet.

Transportation regulation: when airlifting magnetism products, we must abide by dangerons substance regulations of international airlift association.

Non-dangerous goods: According to conventional transport.

Regulatory Information

Abide by correlation laws and regulations the nation one belongs to.

Other Information

Additional harm to health: N/A

Abbreviation: N/A=Not Applicable

For reference only:

★ Volvo corporate standard STD 5713.102.Volvo car corporation.

★ Sax dangerous properties of industrial materials. Ed., Vol. l. 1992 .

★ Toxicol, Appl. Pharm.. 6(1963)750.