

<a href="#">Neodymium Balls</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Band</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Bars</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Blocks</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Chips</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Chunk</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Coil</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Concentrate</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Cubes</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Cylinder</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Disc</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Flake</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Flange</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Foil</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Granules</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Ingot</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Lump</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Mesh</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Metal</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Microfoil</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Microleaf</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Nanoparticle Dispersion</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Nanoparticles</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Nanorods</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Particles</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Parts</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Pellets</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Pieces</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Plate</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Powder</a>	<a href="#">Pricing &gt;</a>

<a href="#">Neodymium Puck</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Ribbon</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Ring</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Rod</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Rotatable Sputtering Target</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Samples</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Shavings</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Sheet</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Shot</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Single Crystal</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Sleeve</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Slugs</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Specimen</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Spheres</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Spring</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Sputtering Target</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Strip</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Tape</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Tube</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Wafer</a>	<a href="#">Pricing &gt;</a>
<a href="#">Neodymium Wire</a>	<a href="#">Pricing &gt;</a>
<a href="#">Ultra Thin Neodymium Nanoscale Foil</a>	<a href="#">Pricing &gt;</a>

<b>Linear Formula</b>	Nd
<b>Pubchem CID</b>	23934
<b>MDL Number</b>	MFCD00011130
<b>EC No.</b>	231-109-3
<b>Beilstein/Reaxys No.</b>	N/A
<b>SMILES</b>	[Nd]
<b>Inchl Identifier</b>	InChI=1S/Nd
<b>Inchl Key</b>	QEFYFXOXNSNQGX-UHFFFAOYSA-N
<b>Signal Word</b>	N/A
<b>Hazard Statements</b>	N/A
<b>Hazard Codes</b>	N/A

<b>Precautionary Statements</b>	P261-P305 + P351 + P338
<b>Flash Point</b>	Not applicable
<b>Risk Codes</b>	N/A
<b>Safety Statements</b>	N/A
<b>RTECS Number</b>	QO8575000
<b>Transport Information</b>	UN 3208 4.3/PG
<b>WGK Germany</b>	3

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## SAFETY DATA SHEET

Date Accessed: 09/26/2024

Date Revised: 01/15/2022

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### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #7440-00-8

**Relevant identified uses of the substance:**  
Scientific research and development

Supplier details:  
American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:  
Domestic, North America +1 800-424-9300  
International +1 703-527-3887

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### SECTION 2. HAZARDS IDENTIFICATION

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

The substance is not classified as hazardous to health or the environment according to the CLP regulation.  
Hazards not otherwise classified

No data available

Label elements

Labelling according to Regulation (EC) No 1272/2008

N/A

Hazard pictograms

N/A

Signal word  
N/A  
Hazard statements  
N/A  
WHMIS classification  
Not controlled  
Classification system  
HMIS ratings (scale 0-4)  
(Hazardous Materials Identification System)  
HEALTH  
FIRE  
REACTIVITY  
1  
1  
1  
Health (acute effects) = 1  
Flammability = 1  
Physical Hazard = 1  
Other hazards  
Results of PBT and vPvB assessment  
PBT:  
N/A  
vPvB:  
N/A

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### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances  
CAS No. / Substance Name:  
7440-00-8 Neodymium  
Identification number(s):  
EC number:  
231-109-3

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### **SECTION 4. FIRST AID MEASURES**

Description of first aid measures  
General information  
No special measures required.  
If inhaled:  
Seek medical treatment in case of complaints.  
In case of skin contact:  
Generally the product does not irritate the skin.  
In case of eye contact:  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
If swallowed:  
If symptoms persist consult doctor.  
Information for doctor  
Most important symptoms and effects, both acute and

delayed  
No data available  
Indication of any immediate medical attention and special treatment needed  
No data available

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## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media  
Suitable extinguishing agents  
Extinguishing powder. Do not use water.  
Special hazards arising from the substance or mixture  
If this product is involved in a fire, the following can be released:  
Advice for firefighters  
Protective equipment:  
No special measures required.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures  
Not required.  
Environmental precautions:  
Do not allow material to be released to the environment without official permits.  
Methods and materials for containment and cleanup:  
Pick up mechanically.  
Prevention of secondary hazards:  
No special measures required.  
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.

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## **SECTION 7. HANDLING AND STORAGE**

Handling  
Precautions for safe handling  
Keep container tightly sealed.  
Store in cool, dry place in tightly closed containers.  
Information about protection against explosions and fires:  
No special measures required.  
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:  
Store away from halogens.  
Further information about storage conditions:  
Keep container tightly sealed.  
Store in cool, dry conditions in well-sealed containers.  
Specific end use(s)  
No data available

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Additional information about design of technical systems:  
No further data; see section 7.  
Control parameters  
Components with limit values that require monitoring at the workplace:  
Not required.  
Additional information:  
No data  
Exposure controls  
Personal protective equipment  
Follow typical protective and hygienic practices for handling chemicals.  
Maintain an ergonomically appropriate working environment.  
Breathing equipment:  
Not required.  
Protection of hands:  
Not required.  
Eye protection:  
Safety glasses  
Body protection:  
Protective work clothing.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties  
Appearance:  
Form: Solid in various forms  
Color: Silver grey  
Odor: Odorless  
Odor threshold: No data available.  
pH: N/A  
Melting point/Melting range: 1024 °C (1875 °F)  
Boiling point/Boiling range: 3027 °C (5481 °F)  
Sublimation temperature / start: No data available  
Flash point: N/A

Flammability (solid, gas)  
Product is not flammable.  
Ignition temperature: No data available  
Decomposition temperature: No data available  
Autoignition: No data available.  
Danger of explosion: Product does not present an explosion hazard.  
Explosion limits:  
Lower: No data available  
Upper: No data available  
Vapor pressure: N/A  
  
Density at 20 °C (68 °F): 7 g/cm<sup>3</sup> (58.415 lbs/gal)  
Relative density  
No data available.  
Vapor density  
N/A  
Evaporation rate  
N/A  
Solubility in Water (H<sub>2</sub>O): No data available  
Partition coefficient (n-octanol/water): No data available.  
Viscosity:  
Dynamic: N/A  
Kinematic: N/A  
Other information  
No data available

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity  
No data available  
Chemical stability  
Stable under recommended storage conditions.  
Thermal decomposition / conditions to be avoided:  
Decomposition will not occur if used and stored according to specifications.  
Possibility of hazardous reactions  
Powder: contact with water liberates extremely flammable gases.  
Conditions to avoid  
No data available  
Incompatible materials:  
Oxidizing agents  
Halogens  
Air  
Hazardous decomposition products:  
Metal oxide fume

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## **SECTION 11. TOXICOLOGICAL**

## **INFORMATION**

Information on toxicological effects

Acute toxicity:

No effects known.

LD/LC50 values that are relevant for classification:

No data

Skin irritation or corrosion:

No irritant effect.

Eye irritation or corrosion:

No irritant effect.

Sensitization:

No sensitizing effects known.

Germ cell mutagenicity:

No effects known.

Carcinogenicity:

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity:

No effects known.

Specific target organ system toxicity - repeated exposure:

No effects known.

Specific target organ system toxicity - single exposure:

No effects known.

Aspiration hazard:

No effects known.

Subacute to chronic toxicity:

Lanthanons can cause delayed blood clotting leading to hemorrhages.

Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage.

Subacute to chronic toxicity:

No effects known.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Carcinogenic categories

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity

Aquatic toxicity:

No data available

Persistence and degradability

No data available

Bioaccumulative potential



No data available  
Mobility in soil  
No data available  
Additional ecological information:  
Do not allow material to be released to the environment without official permits.  
Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage systems.  
Avoid transfer into the environment.  
Results of PBT and vPvB assessment  
PBT:  
N/A  
vPvB:  
N/A  
Other adverse effects  
No data available

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### **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods  
Recommendation  
Consult official regulations to ensure proper disposal.  
Uncleaned packagings:  
Recommendation:  
Disposal must be made according to official regulations.

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### **SECTION 14. TRANSPORT INFORMATION**

Not a hazardous material for transportation.  
UN-Number  
DOT, IMDG, IATA  
None  
UN proper shipping name  
DOT, IMDG, IATA  
None  
Transport hazard class(es)  
DOT, ADR, IMDG, IATA  
Class  
None  
Packing group  
DOT, IMDG, IATA  
None  
Environmental hazards:  
N/A  
Special precautions for user  
N/A  
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N/A

Transport/Additional information:

Not dangerous according to the above specifications.

DOT

Marine Pollutant (DOT):

No

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## **SECTION 15. REGULATORY INFORMATION**

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

National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

SARA Section 313 (specific toxic chemical listings)  
Substance is not listed.

California Proposition 65

Prop 65 - Chemicals known to cause cancer  
Substance is not listed.

Prop 65 - Developmental toxicity  
Substance is not listed.

Prop 65 - Developmental toxicity, female  
Substance is not listed.

Prop 65 - Developmental toxicity, male  
Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.

Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use)

Substance is not listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is

believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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