

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

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

<b>Linear Formula</b>	Dy
<b>Pubchem CID</b>	23912
<b>MDL Number</b>	MFCD00010982
<b>EC No.</b>	231-073-9
<b>Beilstein/Reaxys No.</b>	N/A
<b>SMILES</b>	[Dy]
<b>Inchl Identifier</b>	InChI=1S/Dy
<b>Inchl Key</b>	KBQHZAAAGSGFKK-UHFFFAOYSA-N
<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	H228
<b>Hazard Codes</b>	N/A

<b>Risk Codes</b>	N/A
<b>Safety Statements</b>	22-24/25
<b>RTECS Number</b>	N/A
<b>Transport Information</b>	N/A
<b>WGK Germany</b>	3

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## SAFETY DATA SHEET

Date Accessed: 07/05/2022

Date Revised: 05/15/2015

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### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #7429-91-6

**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 in accordance with 29 CFR 1910 (OSHA HCS)  
The substance is not classified according to the Globally Harmonized System (GHS).

Hazards not otherwise classified

No data available

GHS label elements

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:  
7429-91-6 Dysprosium  
Identification number(s):  
EC number:  
231-073-9

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

Description of first aid measures  
If inhaled:  
Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.  
Seek immediate medical advice.  
In case of skin contact:  
Immediately wash with soap and water; rinse thoroughly.  
Seek immediate medical advice.  
In case of eye contact:  
Rinse opened eye for several minutes under running water. Consult a physician.  
If swallowed:  
Seek medical treatment.  
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

Special powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agents

Water

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Metal oxide fume

Advice for firefighters

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

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

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

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 data available

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:  
Do not store together with acids.  
Store away from acid chlorides.  
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:  
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.  
Control parameters  
Components with limit values that require monitoring at the workplace:  
None.  
Additional information:  
No data  
Exposure controls  
Personal protective equipment  
Follow typical protective and hygienic practices for handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Remove all soiled and contaminated clothing immediately.  
Wash hands before breaks and at the end of work.  
Maintain an ergonomically appropriate working environment.  
Breathing equipment:  
Use suitable respirator when high concentrations are present.  
Protection of hands:  
Impervious gloves  
Inspect gloves prior to use.  
Suitability of gloves should be determined both by material and quality, the latter of which may vary by manufacturer.  
Penetration time of glove material (in minutes)  
No data available  
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: Grey to silver

Odor: Odorless

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 1412 °C (2574 °F)

Boiling point/Boiling range: 2567 °C (4653 °F)

Sublimation temperature / start: No data available

Flammability (solid, gas)

No data available.

Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: No data available.

Explosion limits:

Lower: No data available

Upper: No data available

Vapor pressure: N/A

Density at 20 °C (68 °F): 8.55 g/cm<sup>3</sup> (71.35 lbs/gal)

Relative density

No data available.

Vapor density

N/A

Evaporation rate

N/A

Solubility in Water (H<sub>2</sub>O): Insoluble

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

Spontaneously flammable in air.

Conditions to avoid

No data available  
Incompatible materials:  
Acids  
Air  
Acid chlorides  
Halogens  
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:

May cause irritation

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:

No effects known.

Additional toxicological information:

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

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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**

UN-Number  
DOT, ADN, IMDG, IATA  
N/A  
UN proper shipping name  
DOT, ADN, IMDG, IATA  
N/A  
Transport hazard class(es)  
DOT, ADR, ADN, IMDG, IATA  
Class  
N/A  
Packing group  
DOT, IMDG, IATA  
N/A  
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:  
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

GHS label elements

N/A

Hazard pictograms

N/A

Signal word

N/A

Hazard statements

N/A

National regulations

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

All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). 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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