

# SAFETY DATA SHEET

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## **SECTION 1. IDENTIFICATION**

**Product Name:** Dysprosium Hydride

Product Number: All applicable American Elements product codes, e.g. DY-HID-02, DY-HID-03,

DY-HID-04, DY-HID-05

CAS #: 13537-09-2

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:**

+1 800-424-9300

#### **SECTION 2. HAZARDS IDENTIFICATION**

Signal Word: Danger Hazard Statements H228 Flammable solid.

H261 In contact with water releases flammable gas.

H302+H312+H332 Harmful if swallowed, in contact with skin, or if inhaled. H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.





#### **Precautionary Phrases**

P210 Keep away from heat/sparks/open flames/hot surfaces.

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231+P232 Handle under inert gas. Protect from moisture.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

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

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

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

HMIS CLASSIFICATION:

Health: 1 Fire: 2

Reactivity Hazard: 2 NFPA RATING:

Health: 1

Flammability: 2 Reactivity Hazard: 2

EYE CONTACT: Causes serious eye irritation.

SKIN CONTACT: Causes skin irritation.

INHALATION: May cause respiratory irritation.

INGESTION: Harmful if swallowed.

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

Formula: DyH3

Cas number: 13537-09-2 Molecular weight: 165.52382

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

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

INGESTION: Seek medical attention immediately.

# **SECTION 5. FIREFIGHTING MEASURES**

FLASH POINT: Flammable solid.

Autoignition: Not available

**EXPLOSION LIMITS: Not available** 

EXTINGUISHING MEDIUM: Carbon dioxide, dry chemical powder, or alcohol resistant foam. DO NOT

**USE WATER!** 

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Contact with water releases flammable gases.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen, fumes of nitrogen oxides.

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

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust. ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Shut off all sources of ignition. Contain spill with inert material. Pick up and arrange disposal without creating dust. Ventilate and wash spill site after material is pickup is complete. Sweep up and keep in suitable, closed containers for disposal. Dispose of all waste and cleanup materials in accordance with regulations.

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

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid formation of dusts and aerosols. Handle under inert gas. Keep away from sources of ignition.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry well ventilated area. Keep away from incompatible materials. Store under nitrogen or argon. Protect from moisture, acids, and oxidizers.

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

EXPOSURE CONTROLS: Contains no substances with occupational exposure limit values.

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities

accessible to areas of use and handling.

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

FORM: powder

MOLECULAR WEIGHT: 165.52382 BOILING POINT: No data available MELTING POINT: No data available

DENSITY: 7.1 g/cm3

# **SECTION 10. STABILITY AND REACTIVITY**

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Humidity, all sources of ignition

INCOMPATIBILITY: Oxidizing agents, alcohols, water, acids, moisture, fluorine, chlorine, bromine,

iodine, carbon tetrachloride, freons, and halogens.

DECOMPOSITION PRODUCTS: Hydrogen, fumes of nitrogen oxides.

#### SECTION 11. TOXICOLOGICAL INFORMATION

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Humidity, all sources of ignition

INCOMPATIBILITY: Oxidizing agents, alcohols, water, acids, moisture, fluorine, chlorine, bromine,

iodine, carbon tetrachloride, freons, and halogens.

DECOMPOSITION PRODUCTS: Hydrogen, fumes of nitrogen oxides.

To the best of our knowledge the toxicological effects of this compound have not been fully

investigated.

### **SECTION 12. ECOLOGICAL INFORMATION**

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Dispose of in according to local, state, and federal regulations.

## **SECTION 14. TRANSPORT INFORMATION**

UN3132 Marine Pollutant: No

Water-reactive Solid, Flammable, n.o.s. CLASS 4.3 (4.1) Packing Group: II

# **SECTION 15. REGULATORY INFORMATION**

TSCA: Listed in the TSCA inventory

SARA 302/304: Not Listed SARA 311/312: Not Listed SARA (TITLE 313): Not Listed CALIFORNIA

PROP. 65: Not Listed

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: No components are subject to the Massachusetts Right to Know Act. NEW JERSEY RIGHT TO KNOW COMPONENTS: No components are subject to the New Jersey Right to Know Act. PENNSYLVANIA RIGHT TO KNOW COMPONENTS: No components are subject to the Pennsylvania Right to Know Act.

### **SECTION 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 ELEMENTS. LICENSED AMERICAN ELEMENTS. LICENSED AMERICAN ELEMENTS. LICENSED AMERICAN ELEMENTS. LICENSED ELEMEN