

<a href="#">Europium(II) Fluoride</a>		<a href="#">Pricing &gt;</a>
<b>Linear Formula</b>	EuF <sub>2</sub>	
<b>Pubchem CID</b>	21225127	
<b>MDL Number</b>	MFCD01866333	
<b>EC No.</b>	N/A	
<b>IUPAC Name</b>	europium(2+); difluoride	
<b>Beilstein/Reaxys No.</b>	N/A	
<b>SMILES</b>	[Eu+2].[F-].[F-]	
<b>Inchl Identifier</b>	InChI=1S/Eu.2FH/h;2*1H/q+2;;/p-2	
<b>Inchl Key</b>	YLDGIMHVWSTRML-UHFFFAOYSA-L	
<b>Signal Word</b>	Warning	
<b>Hazard Statements</b>	H331-H302-H312-H315-H319-H335	
<b>Hazard Codes</b>	Xi, Xn	
<b>Precautionary Statements</b>	P261-P280-P305+P351+P338-P304+P340-P311-P362-P301+P312-P312-P405-P501a	
<b>Flash Point</b>	Not applicable	
<b>Risk Codes</b>	20/21/22-36/37/38	
<b>Safety Statements</b>	9-26-36/37	
<b>RTECS Number</b>	N/A	
<b>Transport Information</b>	UN3288 6.1/PG III	
<b>WGK Germany</b>	3	
<b>GHS Pictograms</b>	<a href="#">GHS07 Exclamation Point</a> 	

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## SAFETY DATA SHEET

Date Accessed: 05/25/2024

Date Revised: 01/15/2022

### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #14077-39-5

**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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label Elements

Signal Word: Warning

### Hazard Statements

Harmful if swallowed

Harmful in contact with skin

Causes skin irritation

Causes serious eye irritation

Harmful if inhaled

May cause respiratory irritation



### Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

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

Use only outdoors or in a well-ventilated area

#### Inhalation

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

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eyes

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

If eye irritation persists: Get medical advice/attention

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or  
doctor/physician if you feel unwell  
Rinse mouth  
Storage  
Store in a well-ventilated place. Keep container tightly  
closed  
Store locked up  
Disposal  
Dispose of contents/container to an approved waste  
disposal plant  
Hazards not otherwise classified (HNOC)  
None identified

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

Component: Europium fluoride (EuF<sub>2</sub>)  
CAS-No: 14077-39-5  
Weight %: <=100

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

General Advice If symptoms persist, call a physician.  
Eye Contact Rinse immediately with plenty of water,  
also under the eyelids, for at least 15 minutes. Get  
medical attention.  
Skin Contact Wash off immediately with plenty of  
water for at least 15 minutes. If skin irritation persists,  
call a physician.  
Inhalation Move to fresh air. If not breathing, give  
artificial respiration. Get medical attention if  
symptoms occur.  
Ingestion Clean mouth with water and drink  
afterwards plenty of water. Get medical attention if  
symptoms occur.  
Most important symptoms and effects  
None reasonably foreseeable.  
Notes to Physician Treat symptomatically

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### **SECTION 5. FIREFIGHTING MEASURES**

Unsuitable Extinguishing Media No information  
available  
Flash Point No information available  
Method - No information available  
Autoignition Temperature No information available  
Explosion Limits  
Upper No data available  
Lower No data available  
Sensitivity to Mechanical Impact No information

available  
Sensitivity to Static Discharge No information  
available  
Specific Hazards Arising from the Chemical  
Keep product and empty container away from heat  
and sources of ignition.  
Hazardous Combustion Products  
Hydrogen fluoride Europium oxide  
Protective Equipment and Precautions for Firefighters  
As in any fire, wear self-contained breathing  
apparatus pressure-demand, MSHA/NIOSH  
(approved or equivalent) and full protective gear.  
NFPA  
Health: 2  
Flammability: 0  
Instability: 0  
Physical hazards: -

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

Personal Precautions Ensure adequate ventilation.  
Use personal protective equipment. Avoid dust  
formation.  
Environmental Precautions Should not be released  
into the environment. See Section 12 for additional  
ecological  
information. Do not allow material to contaminate  
ground water system. Do not flush into surface water  
or sanitary sewer system.  
Methods for Containment and Clean Up  
Sweep up or vacuum up spillage and collect in  
suitable container for disposal. Keep in suitable,  
closed containers for disposal.

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

Handling  
Wear personal protective equipment. Ensure  
adequate ventilation. Avoid ingestion and  
inhalation. Avoid dust formation. Do not get in eyes,  
on skin, or on clothing.  
Storage  
Protect from moisture.

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

Personal Protective Equipment  
Eye/face Protection Wear appropriate protective

eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
Skin and body protection Long sleeved clothing.  
Respiratory Protection No protective equipment is needed under normal use conditions.  
Hygiene Measures  
Handle in accordance with good industrial hygiene and safety practice

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

Physical State Solid  
Appearance Yellow  
Odor Odorless  
Odor Threshold No information available  
pH No information available  
Melting Point/Range 1380 °C / 2516 °F  
Boiling Point/Range > 2400 °C / 4352 °F  
Flash Point No information available  
Evaporation Rate Not applicable  
Flammability (solid,gas) No information available  
Flammability or explosive limits  
Upper No data available  
Lower No data available  
Vapor Pressure No information available  
Vapor Density Not applicable  
Specific Gravity 6.495 g/cm<sup>3</sup>  
Solubility No information available  
Partition coefficient; n-octanol/water No data available  
Autoignition Temperature No information available  
Decomposition Temperature No information available  
Viscosity Not applicable  
Molecular Formula EuF<sub>2</sub>  
Molecular Weight 189.96

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

Reactive Hazard None known, based on information available  
Stability Moisture sensitive.  
Conditions to Avoid Incompatible products.  
Incompatible Materials Strong oxidizing agents  
Hazardous Decomposition Products Hydrogen fluoride, Europium oxide  
Hazardous Polymerization Hazardous polymerization does not occur.  
Hazardous Reactions None under normal processing.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Toxicity

Product Information

Component Information

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed

No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

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## **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability Insoluble in water May persist

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due to its low water solubility.

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and

national hazardous waste regulations to ensure complete and accurate classification.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT

UN-No UN3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S.

Proper technical name (Europium(II) fluoride, anhydrous)

Hazard Class 6.1

Packing Group III

TDG

UN-No UN3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S.

Hazard Class 6.1

Packing Group III

IATA

UN-No UN3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S.

Hazard Class 6.1

Packing Group III

IMDG/IMO

UN-No UN3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S.

Hazard Class 6.1

Packing Group III

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## **SECTION 15. REGULATORY INFORMATION**

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration  
Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security  
This product does not contain any DHS chemicals.  
Other International Regulations  
Mexico - Grade No information available

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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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