# Heegermaterials

# SAFETY DATA SHEET

Revision Date 14-Feb-2020

**Revision Number** 2

1. Identification						
Product Name	Erbium (III) fluoride					
CAS-No	13760-83-3					
Synonyms	No information available					
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.					
Details of the supplier of the safety	data sheet					
Company Heeger Materials Inc. 230 Steele St Denver CO 80206 United States	Cr )					
Tel: 925-385-8104 Email: sales@heegermaterials.com www.heegermaterials.com	Mata					
Emergency Telephone Number During normal business hours (Monda	y-Friday, 8am-7pm EST), call (800) 343-0660.					

#### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

### 2. Hazard(s) identification

### Classification

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

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 2 Category 2 Category 3

#### Label Elements

Signal Word Warning

### **Hazard Statements**

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### **Precautionary Statements** Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

### Eves

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

### 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

# 3. Composition/Information on Ingredients

Component	CAS-No		Weight %
Erbium fluoride (ErF3)	13760-83-3	1	99

### 4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Remove from exposure, lie down. Remove to fresh air. Get medical attention.
Ingestion	Clean mouth with water. Get medical attention.
Most important symptoms and	No information available.
effects Notes to Physician	Treat symptomatically

### 5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media	No information available						
Flash Point Method -	No information available No information available						
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available						
Specific Hazards Arising from the C Non-combustible.	hemical						
Hazardous Combustion Products Gaseous hydrogen fluoride (HF). Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.		emand, MSHA/NIOSH (approv	ed or equivalent) and full				
NFPA Health 2	Flammability 0	<b>Instability</b> 0	Physical hazards N/A				
CO CO	6. Accidental rel	ease measures					
Personal Precautions Environmental Precautions	Ensure adequate ventilation See Section 12 for addition	n. Use personal protective equ al Ecological Information.	ipment as required.				
Methods for Containment and Clear	Sweep up and shovel into s	suitable containers for disposa					
Methods for Containment and Clear Up	Sweep up and shovel into s	suitable containers for disposa	L				
	Sweep up and shovel into s 7. Handling a	Cr:					
	7. Handling a	and storage 7 eyes. Do not breathe dust. Ha					
Up	7. Handling a Avoid contact with skin and system or provide appropria Keep in a dry, cool and wel	and storage eyes. Do not breathe dust. Ha ate exhaust ventilation.	andle product only in closed ct specification and/or product				

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Erbium fluoride (ErF3)	TWA: 2.5 mg/m <sup>3</sup>	(Vacated) TWA: 2.5 mg/m <sup>3</sup>	IDLH: 250 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>

### <u>Legend</u>

**ACGIH** - American Conference of Governmental Industrial Hygienists **OSHA** - Occupational Safety and Health Administration

#### **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location.

### 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

**Respiratory Protection** 

Hygiene Measures

Wear appropriate protective gloves and clothing to prevent skin exposure.

No protective equipment is needed under normal use conditions.

Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

**Physical State** Appearance Odor **Odor Threshold** pН **Melting Point/Range** Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water Autoignition Temperature 311 Decomposition Temperature Viscosity Molecular Formula **Molecular Weight** 

Powder Solid Light red Odorless No information available 1350 °C / 2462 °F 2200 °C / 3992 °F No information available Not applicable No information available

No data available No data available No information available Not applicable No information available No information available No data available

No information available Not applicable Er F3 224.28

10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products.			
Incompatible Materials	Strong acids			
Hazardous Decomposition Product	<b>s</b> Gaseous hydrogen fluoride (HF)			
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
	11. Toxicological information			
Acute Toxicity				
Product Information	No acute toxicity information is available for this product			

Product Information Component Information	No acute toxicity information is available for this product
Toxicologically Synergistic Products	No information available
	ell as chronic effects from short and long-term exposure

Irritation

No information available

### Sensitization

Carcinogenicity

No information available

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
Erbium fluoride (ErF3)	13760-83-3	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	-	No information available						
Reproductive Effect	Reproductive Effects		ailable.					
Developmental Effe	cts	No information available.						
Teratogenicity		No information ava	ailable.					
STOT - single expos STOT - repeated exp		Respiratory syster None known	n					
Aspiration hazard		No information ava	ailable					
Symptoms / effects delayed	,both acute and	No information ava	ailable					
Endocrine Disruptor Information No information available								
Other Adverse Effects The toxicological properties have not been fully investigated.								
	CO	12. Ecol	ogical infor	mation				
Ecotoxicity Do not empty into dra	ains.	Cr 1	1					
Persistence and De	stence and Degradability Insoluble in water							
Bioaccumulation/ A	ccumulation	ion No information available.						
Mobility		Is not likely mobile in the environment due its low water solubility.						
	13. Disposal considerations							
Waste Disposal Met	hods	Chemical waste ge hazardous waste. national hazardous	Chemical waste g	enerators must als	so consult local, re	gional, and		
		14. Tran	sport inform	nation				
DOT		Not regulated						

14. I ransport information		
DOT	Not regulated	
DOT TDG	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Erbium fluoride (ErF3)	13760-83-3	Х	ACTIVE	-

### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

### TSCA 12(b) - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Erbium fluoride (ErF3)	13760-83-3	-	X	237-356-3	-	Х	Х	Х	KE-13117
U.S. Federal Regulations									
SARA 313	Not appl	licable							
SARA 311/312 Hazard Catego	ories See sec	tion 2 for 1	more infor	mation					
CWA (Clean Water Act)	Not appl	licable							
Clean Air Act	Not appl	licable							
<b>OSHA</b> - Occupational Safety an Health Administration	nd Not appl	licable							
CERCLA	Not appl	licable							
California Proposition 65	This pro	duct does	not conta	in any Prop	osition 65	chemicals			
U.S. State Right-to-Know C Regulations	20m								
	assachusetts	New .	Jersey	Pennsy	/Ivania		nois		de Island
Erbium fluoride (ErF3)   U.S. Department of Transport   Reportable Quantity (RQ):   DOT Marine Pollutant   DOT Severe Marine Pollutant	ation N N N		<i>a</i> 1	in any DHS	a1.				<u>x</u>
U.S. Department of Homeland Security	1 This pro	duct does	not conta	in any DHS	chemicals		<b>b</b> _		
Other International Regulation	<u>ns</u>						ΥC.		
Mexico - Grade		mation ava						•	
		16 04	horin	formati					

	16. Other information
Revision Date	14-Feb-2020
Print Date	14-Feb-2020
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 13760-83-3/2.

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**