# Heegermaterials

## SAFETY DATA SHEET

Revision Date 18-Feb-2020

**Revision Number** 2

1. Identification		
Product Name	Thulium(III) fluoride, anhydrous, ultra dry	
CAS-No	13760-79-7	
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	ay-Friday, 8am-7pm EST), call (800) 343-0660.	
Emergency Telephone Number During normal business hours (Monda	ay-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

Category 4 Category 4 Category 4 Category 4 Category 2 Category 2 Category 3

Classification

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

Acute oral toxicity
Acute dermal toxicity
Acute Inhalation Toxicity - Dusts and Mists
Acute Inhalation Toxicity - Vapors
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Specific target organ toxicity (single exposure)
Target Organs - Respiratory system.

Label Elements

Signal Word Warning

**Hazard Statements** Causes skin irritation Causes serious eye irritation May cause respiratory irritation Harmful if swallowed, in contact with skin or if inhaled

Wash face, hands and any exposed skin thoroughly after handling



#### Precautionary Statements Prevention

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 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 Indestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell ee. Fials Inc. 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

#### 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Thulium fluoride (TmF3)	13760-79-7	<=100

#### 4. First-aid measures

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. Get medical attention immediately if symptoms occur.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if

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	symptoms occur.		
Most important symptoms and	None reasonably foreseeable.		
effects Notes to Physician	Treat symptomatically		
	5. Fire-fighting measures		
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper Lower	No data available No data available		
Sensitivity to Mechanical Impact Sensitivity to Static Discharge			
Specific Hazards Arising from the C Keep product and empty container awa Hazardous Combustion Products Gaseous hydrogen fluoride (HF). Meta Protective Equipment and Precautic As in any fire, wear self-contained brea protective gear. <u>NFPA</u> Health 2	ay from heat and sources of ignition. Il oxides.		
	6. Accidental release measures		
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.		
Environmental Precautions			
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up			
	7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.		
Storage	Keep away from water or moist air. Keep away from acids. Store under an inert atmosphere. This product is hygroscopic. Keep container tightly closed in a dry and well-ventilated place.		
8 Ev	vnosure controls / nersonal protection		

### 8. Exposure controls / personal protection

#### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Thulium fluoride (TmF3)	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 **NIOSH IDLH:** NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	None under normal use conditions. 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	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

#### 9. Physical and chemical properties

**Physical State** Appearance Odor <sup>3</sup>eger Ma **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 **Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight** 

Crystalline No information available No information available

No data available No data available No information available No information available No information available No data available No information available No information available No information available TmF3 225.93

Inc.

#### **10. Stability and reactivity**

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Acids, Water	
Hazardous Decomposition Products Gaseous hydrogen fluoride (HF), Metal oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
Conditions to Avoid Incompatible Materials Hazardous Decomposition Products Hazardous Polymerization	Incompatible products. Acids, Water s Gaseous hydrogen fluoride (HF), Metal oxides Hazardous polymerization does not occur.	

## 11. Toxicological information

Acute Toxicity						
Product Information Component Information Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure						
Irritation		No information ava	ilable			
Sensitization		No information ava	ilable			
Carcinogenicity		The table below inc	dicates whether ea	ch agency has list	ed any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Thulium fluoride (TmF3)	13760-79-7	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effect	s	No information ava	ilable.			
Developmental Effe	cts	No information ava	ilable.			
Teratogenicity	(C60	No information ava	ilable.			
STOT - single expos STOT - repeated exp		Respiratory system None known	1			
Aspiration hazard	n hazard No information available					
Symptoms / effects delayed	nptoms / effects,both acute and No information available ayed Iocrine Disruptor Information No information available					
Endocrine Disrupto	r Information	No information ava	ilable		7	
Other Adverse Effects The toxicological properties have not been fully investigated.						
12. Ecological information						
Ecotoxicity Do not empty into dra	ains.					
Persistence and De	gradability	No information available				
Bioaccumulation/ A	ccumulation	No information available.				
Mobility	No information available.					
		13. Dispo	sal conside	rations		
Waste Disposal Met	hods	Chemical waste ge hazardous waste. national hazardous	Chemical waste g	enerators must als	o consult local, reg	ional, and
14. Transport information						

DOT

UN-No

UN3288

Proper Shipping Name Toxic solid, inorganic, n.o.s.

Hazard Class	6.1
Packing Group	
TDG	
UN-No	UN3288
Proper Shipping Name	Toxic solid, inorganic, n.o.s.
Hazard Class	6.1
Packing Group	III
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
	15. Regulatory information

#### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Thulium fluoride (TmF3)	13760-79-7	Х	ACTIVE	-

Legend: TSCA - Toxic Substances Control Act, (40 X - Listed '-' - Not Listed	CFR Part 710)
TSCA 12(b) - Notices of Export	Not applicable
International Inventories	aleri.

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
Thulium fluoride (TmF3)	13760-79-7	-	Х	237-353-7	-	Х	7 -	Х	KE-33834
U.S. Federal Regulations									
SARA 313	Not app	licable							
SARA 311/312 Hazard Catego	ries See sec	See section 2 for more information							
CWA (Clean Water Act)	Not app	licable							
Clean Air Act	Not app	licable							
<b>OSHA</b> - Occupational Safety ar Health Administration	nd Not app	licable							
CERCLA	Not app	licable							
California Proposition 65	This pro	This product does not contain any Proposition 65 chemicals.							
U.S. State Right-to-Know Regulations									

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Thulium fluoride (TmF3)	-	Х	-	-	Х

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

16. Other information			
Revision Date	18-Feb-2020		
Print Date	18-Feb-2020		
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 13760-79-7.		

#### Disclaimer

s Safety Data s. rmation given is design lease and is not to be cons. terial designated and may not be text End of SDS 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

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