Heegermaterials

SAFETY DATA SHEET

Revision Date 14-Feb-2020

Revision	Number	2
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	1. Identification				
Product Name	Indium(III) fluoride, anhydrous				
Cat No. :	45525				
CAS-No Synonyms	7783-52-0 Indic fluoride.; Indium trifluoride				
Recommended Use Uses advised against <u>Details of the supplier of the s</u>	Laboratory chemicals. Food, drug, pesticide or biocidal product use. afety data sheet				
	ato.				
	2. Hazard(s) identification				
Classification This chemical is considered haz	ardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)				

Acute oral toxicity Acute Inhalation Toxicity - Dusts and Mists Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Category 4 Category 4 Category 1 B Category 1

Label Elements

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage Harmful if swallowed or if inhaled



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection **Response** Immediately call a POISON CENTER or doctor/physician **Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing **Skin** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse **Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Ingestion Rinse mouth

Do NOT induce vomiting

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Contact with acids liberates toxic gas

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Indium fluoride (InF3)	7783-52-0	99

4. First-aid measures

Eye Contact	Immediate medical attention is required. 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. Immediate medical attention is required.
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Call a physician immediately. Clean mouth with water.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

5. Fire-fighting measures			
	of the fightin	ginououroo	
Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry	chemical. Chemical foam.	
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available t No information available No information available		
Specific Hazards Arising from the C Keep product and empty container awa		ignition.	
Hazardous Combustion Products Gaseous hydrogen fluoride (HF). Fluor Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters	emand, MSHA/NIOSH (appro	ved or equivalent) and full
Health 3	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation See Section 12 for addition	n. Use personal protective equal Ecological Information.	upment as required.
Methods for Containment and Clear Up	Sweep up and shovel into s environment.	uitable containers for disposa	al. Do not let this chemical enter the
	7. Handling a	ind storage	
Handling	Do not breathe dust. Do not then seek immediate medic		othing. Do not ingest. If swallowed
Storage	label for specific storage ter	nperature requirement. Keep	uct specification and/or product container tightly closed. cool and well-ventilated place.
8. Ex	posure controls /	personal protecti	on

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Indium fluoride (InF3)	TWA: 0.1 mg/m ³ TWA: 2.5	(Vacated) TWA: 0.1 mg/m ³	IDLH: 250 mg/m ³	TWA: 0.1 mg/m ³ TWA: 2.5
	mg/m ³	(Vacated) TWA: 2.5 mg/m ³	TWA: 0.1 mg/m ³	mg/m ³

<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	Ensure adequate ventilation, especially in confined areas. 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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder
Appearance	White
Odor	No infori
Odor Threshold	No infori
PH	No infor
Melting Point/Range	1170 °(
Boiling Point/Range	No infor
Flash Point	No infor
Evaporation Rate	Not appl
Flammability (solid,gas)	No infor
Flammability or explosive limits	
Upper	No data
Lower	No data
Vapor Pressure	No infor
Vapor Density	Not appl
Specific Gravity	4.390
Solubility	No infori
Partition coefficient; n-octanol/water	No data
Autoignition Temperature	
Decomposition Temperature	No infori
Viscosity	Not appl
Molecular Formula	F3 In
Molecular Weight	171.8
-	

Powder Solid White No information available No information available 1170 °C / 2138 °F No information available > No information available Not applicable No information available

No data available No data available No information available Not applicable 4.390 No information available No data available

Inc.

No information available Not applicable F3 In 171 8

10. Stability and reactivity

Reactive Hazard	Yes
Stability	Stable under normal conditions. Hygroscopic.
Conditions to Avoid	Incompatible products. Exposure to moist air or water.
Incompatible Materials	Acids, Strong oxidizing agents
Hazardous Decomposition Products	Gaseous hydrogen fluoride (HF), Fluorine
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as w	No information ava		d long-term expo	sure_	
Irritation	No information ava	ilable			
Sensitization	No information ava	ilable			
Carcinogenicity	The table below in	dicates whether ea	ich agency has list	ed any ingredient a	s a carcinogen.
Component CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Indium fluoride (InF3) 7783-52-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects	No information ava	ilable	•		
Reproductive Effects	No information ava	ilable.			
Developmental Effects	No information ava	ilable.			
Teratogenicity	No information ava	ilable.			
STOT - single exposure STOT - repeated exposure	None known None known				
Aspiration hazard	No information ava	ilable			
Symptoms / effects,both acute and delayed	Product is a corros Possible perforatio severe swelling, se	n of stomach or es	sophagus should be	e investigated: Inge	estion causes
Endocrine Disruptor Information	No information available				
Other Adverse Effects	The toxicological properties have not been fully investigated.				
	12. Ecolo	ogical infor	mation	100	
Ecotoxicity Do not empty into drains.					
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ Accumulation	No information ava	ilable.			
Mobility	Will likely be mobile in the environment due to its water solubility.				
13. Disposal considerations					
Waste Disposal Methods	Chemical waste ge hazardous waste. national hazardous	enerators must det Chemical waste g	ermine whether a c enerators must als	o consult local, reg	ional, and
	14. Tran	sport inform	nation		
DOT UN-No Hazard Class Packing Group	UN3260 8 II				

<u>TDG</u>	
UN-No	UN3260
Hazard Class	8
Packing Group	II
IATA	
UN-No	UN3260
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.*
Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN3260
Proper Shipping Name	Corrosive solid, acidic, inorganic, n.o.s.
Hazard Class	8
Packing Group	II
	15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Indium fluoride (InF3)	7783-52-0	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
Indium fluoride (InF3)	7783-52-0	-	Х	232-005-0		-	Х	-	KE-21003
U.S. Federal Regulations									
SARA 313	Not app	licable					///		
SARA 311/312 Hazard Catego	ries See sec	tion 2 for r	more infori	mation				•	
CWA (Clean Water Act)	Not app	Not applicable							
Clean Air Act	Not app	Not applicable							
OSHA - Occupational Safety an Health Administration	d Not app	Not applicable							
CERCLA	Not app	Not applicable							
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	
Indium fluoride (InF3)	-	Х	-	-	Х	

U.S. Department of Transportation

DOT Marine Pollutant DOT Severe Marine Pollutant	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 Print Date Revision Summary	14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 7783-52-0.		

Disclaimer

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