Printing date 07/09/2024

Reviewed on 07/08/2024

### **1** Identification

- · Product identifier
- Trade name: Tin(IV) fluoride
- Article number: 143505
- · CAS Number:
- 7783-62-2
- EC number:
- 232-016-0
- · Application of the substance / the mixture Laboratory chemicals for research and development
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: BeanTown Chemical 9 Sagamore Park Road Hudson, NH 03051 USA

Phone: (603) 402-2234 Fax: (603) 402-9713 Email: technical@beantownchem.com www.beantownchem.com

· Information department: Technical Support Department

- Emergency telephone number:
- During normal operating hours, please call (603) 402-2234 After hours, please call Chemtrec at (800) 424-9300

### 2 Hazard(s) identification

· Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Tox. 1H300 Fatal if swallowed.Acute Tox. 3H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

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### Trade name: Tin(IV) fluoride

· Hazard-determining components of labeling: *Tin(IV) fluoride* · Hazard statements Fatal if swallowed. Toxic in contact with skin or if inhaled. Causes severe skin burns and eye damage. · Precautionary statements If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 7783-62-2 Tin(IV) fluoride
- · Identification number(s)
- EC number: 232-016-0

### 4 First-aid measures

#### · Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.

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### Trade name: Tin(IV) fluoride

• Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.

• Advice for firefighters

• *Protective equipment:* Mouth respiratory protective device.

### 6 Accidental release measures

• *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.* 

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Use neutralizing agent.

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

• **Reference to other sections** 

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

• PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

### 7 Handling and storage

· Handling:

· Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

• Information about protection against explosions and fires: Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

· Control parameters

· Components with limit values that require monitoring at the workplace: Not required.

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Additional information: The lists that were valid during the creation were used as basis.	(Contd. of page 3)
Exposure controls	
Personal protective equipment:	
General protective and hygienic measures:	
Keep away from foodstuffs, beverages and feed.	
Immediately remove all soiled and contaminated clothing.	
Wash hands before breaks and at the end of work.	
Store protective clothing separately.	
Avoid contact with the eyes.	
Avoid contact with the eyes and skin.	
Breathing equipment:	
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or respiratory protective device that is independent of circulating air.	longer exposure use
Protection of hands:	
Protective gloves	
The glove material has to be impermeable and resistant to the product/ the substance/ the prep Due to missing tests no recommendation to the glove material can be given for the product/ chemical mixture.	
Selection of the glove material on consideration of the penetration times, rates of diffusion and <i>Material of gloves</i>	d the degradation
The selection of the suitable gloves does not only depend on the material, but also on further varies from manufacturer to manufacturer.	marks of quality and
Penetration time of glove material	
The exact break through time has to be found out by the manufacturer of the protective g observed.	loves and has to be
Eye protection: Tightly sealed goggles	

# 9 Physical and chemical properties

· Information on basic physical and chemical properties		
· General Information	F F F	
· Appearance:		
Form:	Crystalline	
Color:	Not determined.	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	705 °C (1,301 °F) Undetermined	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Product is not flammable.	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
• Explosion limits: Lower:	Not determined.	
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Upper:	Not determined.	
· Vapor pressure:	Not applicable.	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octand	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
VOC content:	0.00 %	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

### **10 Stability and reactivity**

· *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

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### · OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- *Persistence and degradability* No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN2923
UN proper shipping name DOT IMDG, IATA	Corrosive solids, toxic, n.o.s. (Tin(IV) fluoride) CORROSIVE SOLID, TOXIC, N.O.S. (Tin(IV) fluoride)
Transport hazard class(es)	
DOT	
Class	8 Corrosive substances
Label	8, 6.1
IMDG	
Class	8 Corrosive substances
Label	8/6.1
IATA	
Class	8 Corrosive substances
Label	8 (6.1)

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Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex	: II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 15 kg
	On cargo aircraft only: 50 kg
IMDG	
Limited quantities (LQ)	l kg
Excepted quantities $(\tilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
UN "Model Regulation":	UN 2923 CORROSIVE SOLID, TOXIC, N.O.S. (TIN(IV FLUORIDE), 8 (6.1), II

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

• TSCA (Toxic Substances Control Act):

Substance is not listed.

· Hazardous Air Pollutants

Substance is not listed.

· Proposition 65

• Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

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· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

• TLV (Threshold Limit Value)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· RTECS

Substance is not listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· NFPA ratings (scale 0-4) Health = 4Fire = 0*Reactivity* = 0· HMIS ratings (scale 0-4) *Health* = \*4Fire = 0 Reactivity = 0· Department issuing SDS: Technical Support Department · Contact: Technical Support Department · Date of preparation / last revision 07/09/2024 / -• Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 1: Acute toxicity - Category 1 Acute Tox. 3: Acute toxicity - Category 3 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1