

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Hazard Statement(s):

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not breathe dusts or mists. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Substance 1-Fluoropyridinium Tetrafluoroborate [Fluorinating Reagent] >95.0%(T) 107264-09-5 184.90 $C_5H_5BF_5N$

Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624

Acute Toxicity - Oral [Category 4]

For laboratory research purposes.

Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

1-Fluoropyridinium Tetrafluoroborate [Fluorinating Reagent]

Eye Damage/Irritation [Category 4] Skin Corrosion/Irritation [Category 1]

Danger!

None.

F0343

Harmful if swallowed Causes severe skin burns and eye damage

4. FIRST-AID MEASURES				
Description of first aid measures				
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call POISON CENTER or doctor/physician.			
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.			
Eye contact:	Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.			
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiti			
Symptoms/effects:				
Acute:	Pain. Redness.			
Delayed:	No data available			
Indication of any immediate medical atte	ention:			
Not available. Notes to physician:				
No data available				
5. FIRE-FIGHTING MEASURES				
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.			
Specific hazards arising from the	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume			
chemical: Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides Halogenated compounds Borates			
Other specific hazards:	WARNING: Highly toxic HF gas is produced during combustion.			
Advice for firefighters:	Wear self-contained breathing apparatus if possible.			
6. ACCIDENTAL RELEASE MEASU	RES			
Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to			
equipment and emergency procedures:	non-involved personnel should be controlled around the leakage area by roping off, etc.			
Environmental precautions: Methods and materials for containment	Prevent product from entering drains. Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected			
and cleaning up:	material should be promptly disposed of, in accordance with appropriate laws and regulations.			
7. HANDLING AND STORAGE				
	Landling is performed in a well ventilated place. Wear suitable protective againment. Dravent			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling.			
	Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.			
Conditions for safe storage, including a	Avoid contact with skin, eyes and clothing.			
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.			
	Store under inert gas. Protect from moisture. Store locked up.			
	Store away from incompatible materials such as oxidizing agents. Moisture-sensitive			
Packaging material:	Comply with laws.			
8. EXPOSURE CONTROLS / PERSC	NAL PROTECTION			
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed			
	system or local exhaust. Also install safety shower and eye bath.			
Personal protective equipment				
Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators			

Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid			
Form:	Crystal - Powder			
Colour:	White - Pale yellow			
Odour:	No data available			
Odor threshold:	No data available			
Odour threshold:	No data available			
odour infesticiu.	NO Gala available			
Melting point/freezing point:	194°C (381°F)	pH:	No data available	
Boiling point/range:	No data available	Vapour pressure:	No data available.	
Decomposition temperature:	No data available	Vapour density:	No data available	
Relative density:	No data available	Dynamic Viscosity:	No data available	
Kinematic viscosity:	No data available	, , , , , , , , , , , , , , , , , , ,		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available	
		///////////////////////////////////////		
Flash point:	No data available	Autoignition temperature:	No data available	
Flammability(solid, gas):	No data available	Flammability or explosive limits:		
· · · · · · · · · · · · · · · · · · ·		Lower:	No data available	
		Upper:	No data available	
Solubility(ies):		opper.		
[Water]	No data available			
[Other solvents]				
Soluble:	Acetonitrile			
10. STABILITY AND REACTI	VITY			
Reactivity:	No data available			
Chemical stability:	Stable under proper cond	ditions		
Possibility of hazardous reaction		No special reactivity has been reported.		
Fossibility of hazardous reaction	no special reactivity has	been reputeu.		

TCI AMERICA

11. TOXICOLOGICAL INFORMATION

Hazardous decomposition products:

Acute Toxicity: No data available

Skin corrosion/irritation: No data available

Incompatible materials:

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

> IARC: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

No data available

Oxidizing agents

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen fluoride, Boron oxides

OSHA: No data available 12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³ /mol):	No data available

13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN1759	Proper Shipping Name: Corrosive solids, n.o.s	Class or Division: 8 Corrosive material	Packing Group:
IATA UN number: UN1759	Proper Shipping Name: Corrosive solid, n.o.s	Class or Division: 8 Corrosive material	Packing Group:
IMDG UN UN1759 numb er:	Proper Shipping Name: Corrosive solid, n.o.s	Class or Division: 8 Corrosive material	Packing Group: III
EmS number:	F-A, S-B		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed SARA 302: Not Listed State Regulations State Right-to-Know Massachusetts Not Listed **New Jersey** Not Listed Pennsylvania Not Listed California Proposition 65: Not Listed Other Information **NFPA Rating: HMIS Classification:** Health: 0 Health: Flammability: Flammability: 0 Instability: 0 Physical: International Inventories

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

0

0

0