

#### **Revision number: 2** Revision date: 10/06/2014

#### 1. **IDENTIFICATION**

Product name: Product code:

1,3-Diisopropylimidazolium Tetrafluoroborate D3623

For laboratory research purposes.

Not for drug or household use.

**TCI AMERICA** 

SAFETY DATA SHEET

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 +1-888-520-1075 / +1-503-283-1987 e-mail:

### 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

### 2. HAZARD(S) IDENTIFICATION

sales-US@TCIchemicals.com

www.TCIchemicals.com

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4] Eye Damage/Irritation [Category 1] Skin Corrosion/Irritation [Category 1C]

Signal word:

Fax:

Danger!

Hazard Statement(s):

Causes serious eye damage Causes severe skin burns and eye damage Harmful if swallowed

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]	Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection. Wear eye protection. Wear face protection (full length face shield).
[Response]	If swallowed: Immediately call a poison center or doctor. Rinse mouth. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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.
[Storage] [Disposal]	Store locked up. Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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3. COMPOSITION/INFORMATION					
Substance/Mixture:	Substance				
Components:	1,3-Diisopropylimidazolium Tetrafluoroborate				
Percent:	>96.0%(N)				
CAS Number: 286014-34-4   Molecular Weight: 240.05					
	240.05 C9H17BF4N2				
Chemical Formula: Synonyms:	G9H17BF4N2 IiPr·HBF4				
4. FIRST-AID MEASURES					
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Inhalation:	Immediately call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing i difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
Skin contact:	For severe burns, immediate medical attention is required. Immediately call a poison center or doctor. Remove and wash contaminated clothing before re-use. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Eye contact with vapors or substance may cause severe injury, burns, or death. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
Ingestion:	Harmful if swallowed. Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warn and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
Symptoms/effects:					
Acute: Delayed:	Pain. Redness. No data available				
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is harmful. WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is corrosive. For severe burns, immediate medical attention is required. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
5. FIRE-FIGHTING MEASURES					
Suitable extinguishing media:	Dry chemical, $CO_2$ or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.				
Specific hazards arising from the cher					
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Halogenated compounds Borates WARNING: Highly toxic HF gas is produced during combustion.				
heated. Move containers from fire area if Special protective equipment for fire-f	ighters:				
Near positive pressure self-contained broken	eathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may				
6. ACCIDENTAL RELEASE MEAS	URES				
Personal precautions:	Avoid contact with skin, eves, and clothing. Keep people away from and upwind of spill/leak. Do not touch				

#### **Personal precautions:**

Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6. ACCIDENTAL RELEASE MEASURES		
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).	
Emergency procedures:	Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.	

#### Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:** 

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Avoid inhalation of vapor or mist. Manipulate under an adequate fume hood. Do not ingest. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Bases, Store away from oxidizing agents

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure limits:

No data available

#### Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

#### Personal protective equipment

Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Nitrile gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Wear protective clothing (lab coat and chemical resistant boots).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder Pale yellow - Yellow red No data available No data available			
Melting point/freezing point:	88°C (190°F)	pH:		No data available
Boiling point/range:	No data available	Vapor pressure:		No data available
Decomposition temperature:	No data available	Vapor density:		No data available
Relative density:	No data available	Dynamic Viscosity:		No data available
Kinematic Viscosity:	No data available			
Partition coefficient: n-octanol/water (log P <sub>ow</sub> )	1.70	Evaporation rate: (Butyl Acetate = 1)		No data available
Flash point:	No data available	Autoignition tempe	rature:	No data available
Flammability (solid, gas):	No data available	Flammability or exp Lower:	losive limits: No data availa	able
		Upper:	No data availa	able

Solubility(ies): Soluble: Methanol

# 10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products:		5	s. (See Section 7)	
11. TOXICOLOGICAL INFORMATION	V			
Acute Toxicity: No data available				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
<b>Respiratory or skin sensitization:</b> No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Routes of Exposure: Symptoms related to exposure: Overexposure may result in serious illness of	or death. Skin contac	ntact, Ingestion, Skin contac	contact may result in in	flammation; characterized by itching,
scaling, reddening, or occasionally blistering Potential Health Effects: No specific information available; skin and e	eye contact may resu	ult in irriatation. May be harm		d.
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity Fish: Crustacea:	No data available No data available			

Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential (BCF):	No data available
Mobillity in soil:	No data available
Partition coefficient:	1.70
n-octanol/water (log P <sub>ow</sub> ) Soil adsorption (Koc): Henry's Law: constant (PaM <sup>3</sup> /mol)	No data available No data available

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

### 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**

<b>CERCLA Hazardous substat</b>	nce 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:** 

FPA Rating:		HMIS Classification:
Health:	2	Health:
Flammability:	0	Flammability:
Instability:	0	Physical:

### International Inventories

WHMIS hazard class:

E: Corrosive material. D2A: Materials causing other toxic effects. (Very Toxic)

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### **16. OTHER INFORMATION**

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### 16. OTHER INFORMATION

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 gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.