

#### Revision number: 1 Revision date: 10/06/2014

# 1. IDENTIFICATION

Product name: Product code: 3-Chloro-5-fluorophenylboronic Acid (contains varying amounts of Anhydride) C2914

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-503-286-7624

**TCI** America

**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 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:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

For laboratory research purposes.

Not for drug or household use.

Signal word:

Warning!

None

Substance

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

> [Storage] [Disposal]

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 or attention. None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:
Components:
Percent:
CAS Number:
Molecular Weight:
Chemical Formula:
Synonyms:

3-Chloro-5-fluorophenylboronic Acid (contains varying amounts of Anhydride)
328956-61-2
174.36
C<sub>6</sub>H<sub>5</sub>BCIFO<sub>2</sub>
3-Chloro-5-fluorobenzeneboronic Acid (contains varying amounts of Anhydride)

4. FIRST-AID MEASURES	
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and
Skin contact:	take precautions to protect themselves. If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before re- use. 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)
Eye contact:	involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. 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)
Ingestion:	involved and take precautions to protect themselves. Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. 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 warm 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:	Redness. No data available
mmediate medical attention:	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, $CO_2$ , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the che	emical
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Halogenated compounds Borates WARNING: Highly toxic HF gas is produced during combustion.
Special precautions for fire-fighters: Jse water spray or fog; do not use straig neated. Move containers from fire area i Special protective equipment for fire-	
Wear positive pressure self-contained b	reathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations autions. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may
6. ACCIDENTAL RELEASE MEAS	SURES
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.
Demonstration of the second second	Waar ave protociation (onlosed agentication) and frace protociation (full learth frace object) Lab cost. Dust

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:** 

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.

## 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:	Lab coat.		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Almost white No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available No data available No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limit Lower: No data a Upper: No data a	vailable

Solubility(ies): Soluble: Methanol

### 10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

## 11. TOXICOLOGICAL INFORMATION

3-Chloro-5-fluorophenylboronic Acid (co	ntains TCI AM	ERICA		Page 4 of 5
varying amounts of Anhydride) 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
<b>Reproductive toxicity:</b> No data available				
Routes of Exposure: Symptoms related to exposure: Skin contact may result in inflammation; cha or dry skin. Eye contact may result in rednes Potential Health Effects:	aracterized by itching ss or pain.	ntact, Ingestion, Skin contact. , scaling, reddening, or occas		contact may result in redness, pain
Skin and eye contact may result in irritation. Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Factovicity				
Ecotoxicity Fish:	No data available			
Crustacea: Algae:	No data available No data available			
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil:	No data available No data available No data available			
Partition coefficient: n-octanol/water (log Pow)	No data available			
Soil adsorption (Koc): Henry's Law:	No data available No data available			
constant (PaM <sup>3</sup> /mol)				
13. DISPOSAL CONSIDERATIONS Disposal of product:	Recycle to process	s if possible. It is the generate	or's responsibility to com	ply with Federal, State and Local
	rules and regulatio chemical incinerate assistance but doe regulatory complia	ns. You may be able to disso or equipped with an afterburn as not replace these laws, not nce according to the law. US 40 CFR Parts 261. The prod	lve or mix material with er and scrubber system does compliance in acc EPA guidelines for Iden	a combustible solvent and burn in a . This section is intended to provide cordance with this section ensure tification and Listing of Hazardous ed to enter the environment, drains,
Disposal of container: Other considerations:	Dispose of as unus	sed product. Do not re-use er I, state and local regulations		ubstance.
14. TRANSPORT INFORMATION				
	Non hozardava fa	rtransportation		
DOT (US)	Non-hazardous for			
ΙΑΤΑ	Non-hazardous for	r transportation.		
IMDG	Non-hazardous for	r 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**

**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:**

Health:	1	Health:
Flammability:	0	Flammability:
Instability:	0	Physical:

## International Inventories WHMIS hazard class:

D2B: Materials causing other toxic effects. (Toxic)

### 16. OTHER INFORMATION

## Revision date: 10/06/2014

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

**HMIS Classification:** 

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