

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

#### **IDENTIFICATION** 1.

Product name: Product code:

Voriconazole V0116

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

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## 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Acute Toxicity - Oral [Category 3] Toxic to Reproduction [Category 1B]

Signal word:

Danger!

Hazard Statement(s):

May damage fertility or the unborn child Toxic if swallowed

Pictogram(s) or Symbol(s):



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

[Response]

[Storage] [Disposal] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection. If swallowed: Immediately call a poison center or doctor. Rinse mouth. If exposed: Call a poison center or doctor. 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

Substance/Mixture:	Substance
Components:	Voriconazole >98.0%(HPLC)
Percent: CAS Number:	137234-62-9
Molecular Weight:	349.32
Chemical Formula: Synonyms:	C <sub>16</sub> H <sub>14</sub> F <sub>3</sub> N₅O (2R,3S)-2-(2,4-Difluorophenyl)-3-(5-fluoro-4-pyrimidinyl)-1-(1H-1,2,4-triazol-1-yl)-2-butanol

For laboratory research purposes. Not for drug or household use.

**TCI AMERICA** 

SAFETY DATA SHEET

### 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

## 4. FIRST-AID MEASURES

4. FIRST-AID MEASURES	
Inhalation:	Immediately call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed. Inhalation of vapors or contact with substance will result in contamination and potential harmful effects.
	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 take precautions to protect themselves.
Skin contact:	Immediately call a poison center or doctor. Effects of exposure (skin contact) to substance may be
	delayed. 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) involved and take precautions to protect
For a sector of	themselves.
Eye contact:	If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper eyelids. If eye irritation persists get medical advice/attention. 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:	Toxic if swallowed. Effects of exposure (ingestion) to substance may be delayed. If swallowed, seek
ingeenem	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:	No data available
Delayed:	No data available
Immediate medical attention:	WARNING: It might be dangerous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is toxic. CAUTION: Victim may be a source of contamination. 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	
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Suitable extinguishing media:	Dry chemical, CO <sub>2</sub> or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.
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Specific hazards arising from the cher Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides Halogenated compounds
Other specific hazards:	WARNING: Highly toxic HF gas is produced during combustion.
Special precautions for fire-fighters:	
	ht streams. Dike fire-control water for later disposal: do not scatter the material. Containers may explode when

Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk.

### Special protective equipment for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

## 6. ACCIDENTAL RELEASE MEASURES

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.
Personal protective equipment:	Splash goggles. Wear protective clothing (chemical resistant suit and chemical resistant boots). Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Prevent dust cloud. Do not clean-up or dispose except under supervision of a specialist. 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.

## 6. ACCIDENTAL RELEASE MEASURES

### 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. Avoid contact - obtain special instructions before use. Avoid prolonged or repeated exposure. Normal measures for preventive fire protection. 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:	Combustible substances, Store away from oxidizing agents	

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits:** 

No data available

### Appropriate engineering controls:

Handle only in a fully enclosed system and equipment. 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:	Wear protective gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Wear protective clothing (chemical resistant suit and chemical resistant boots).

## 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:	132°C (270°F) 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 P <sub>ow</sub> )	1.69	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: No data avai Upper: No data avai	

Solubility(ies): Water: Insoluble Soluble: Methanol, Acetonitrile

## 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

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				
<b>Germ cell mutagenicity:</b> 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				
Overexposure may result in serious illr <b>Potential Health Effects:</b> No specific information available; skin <b>Target organ(s):</b> 12. ECOLOGICAL INFORMATIO	and eye contact may resu No data available	It in irriatation. May be harr	nful if inhaled or ingeste	ed.
12. ECOLOGICAL INFORMATIO	N			
Ecotoxicity Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence and degradability:	No data available			
Bioaccumulative potential (BCF): Mobillity in soil:	No data available No data available			
Partition coefficient:	1.69			
n-octanol/water (log Pow)	No doto ovoilabla			
Soil adsorption (Koc): Henry's Law:	No data available No data available			
constant (PaM <sup>3</sup> /mol)				
13. DISPOSAL CONSIDERATION				
Disposal of product:				mply with Federal, State and Local the acombustible solvent and burn in a
	chemical incinerate	or equipped with an afterbu	rner and scrubber syste	m. This section is intended to provide
	assistance but doe			
				accordance with this section ensure
	regulatory complia	nce according to the law. U	S EPA guidelines for Id	accordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,
	regulatory complia Waste are listed in water ways, or the	nce according to the law. U 40 CFR Parts 261. The pro soil.	S EPA guidelines for Id oduct should not be allo	entification and Listing of Hazardous
Disposal of container: Other considerations:	regulatory complia Waste are listed in water ways, or the Dispose of as unus	nce according to the law. U 40 CFR Parts 261. The pro	S EPA guidelines for Id oduct should not be allo empty containers.	entification and Listing of Hazardous wed to enter the environment, drains,

# 14. TRANSPORT INFORMATION

## DOT (US)

14. TRANSPORT INFORMATION				
UN number:	Proper Shipping Name:	Class or Division:	Packing Group:	
UN2811	Toxic solids, organic, n.o.s.	6.1 Toxic material.	III	
ΙΑΤΑ				
UN number:	Proper Shipping Name:	Class or Division:	Packing Group:	
UN2811	Toxic solid, oxidizing, n.o.s.	6.1 Toxic material.	III C I	
IMDG				
UN number:	Proper Shipping Name:	Class or Division:	Packing Group:	
UN2811	Toxic solid, organic, n.o.s.	6.1 Toxic material.	III	
EmS number:	F-A, S-A			

## 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:	2	Health:
Flammability:	0	Flammability:
Instability:	0	Physical:
Flammability:	2 0 0	Flammabi

### International Inventories

WHMIS hazard class:

D1B: Materials causing immediate and serious toxic effects. (Toxic) D2B: Materials causing other toxic effects. (Toxic)

HMIS Classification:

2 0 0

## 16. OTHER INFORMATION

## Revision date: 10/06/2014

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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.