

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

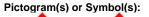
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 3] Eye Damage/Irritation [Category 1] Toxic to Reproduction [Category 2] Specific Target Organ Toxicity (Single Exposure) [Category Skin Corrosion/Irritation [Category 1C]	
Signal word:	Danger!	
Hazard Statement(s):	Toxic if swallowed Causes severe skin burns and eye damage Suspected of damaging fertility or the unborn child May cause damage to organs: Nervous System	

clothing, face protection.

Call a poison center or doctor.

Store locked up.

None.





Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Imidazole [for Fluorimetric Analysis] 10290

TCI AMERICA

SAFETY DATA SHEET

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

#### Emergency telephone number:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, mist, vapors or spray. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

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. If exposed or concerned:

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

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

Hazards not otherwise classified: [HNOC]

Page 1 of 5

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance Imidazole [for Fluorimetric Analysis]
Percent:	>99.0%(GC)(T)
CAS RN:	288-32-4
Molecular Weight:	68.08
Chemical Formula:	C <sub>3</sub> H <sub>4</sub> N <sub>2</sub>

# 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 a POISON CENTER or doctor/physician.     Skin contact:   Remove/Take off immediately all contaminated clothing. Genity wash with pienty of scap and water. Immediately call a POISON CENTER or doctor/physician.     Eye contact:   Rinse cautiously with water for several minutes. Remove contact Innecs. If present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician. Ingestion:     Symptoms/effects:   Pain. Redness. Delayed:   No data available     Indication of any immediate medical attention: Not available.   No data available     Sittable extinguishing media:   Dry chemical, foam, water spray, carbon dioxide.     Specific hazards arising from the chemical:   Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume chemical:     Acute: or firefighters:   Wear self-contained breathing apparatus if possible.     Actice for firefighters:   Wear self-contained breathing apparatus if possible.     Actice or firefighters:   Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from heat of a fine.     Actice for firefighters:   Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area					
Inhalation:   Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.     Skin contact:   Remove/Take off immediately call contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.     Eye contact:   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.     Symptoms/effects:   Actue:     Actue:   Pain. Redness.     Delayed:   No data available     Indication of any immediate medical attention:   Notes to physician:     Notes to physician:   No data available     5. FIRE-FIGHTING MEASURES   Suitable extinguishing media:     Suitable extinguishing media:   Dry chemical, foam, water spray, carbon dioxide.     Specific hazards arising from the chemical:   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     Other specific hazards:   Closed containers may explode from heat of a fire.     4. Act/left frighters:   Wear self-contained breathing apparatus if possible.     6. ACCIDENTAL RELEASE MEASURES   Prevent product from entering drains.     Personal	Description of first aid measures				
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equipment and emergency procedures:   non-involved personnel should be controlled around the leakage area by roping off, etc.     Environmental precautions:   Prevent product from entering drains.     Methods and materials for containment and cleaning up:   Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.     7. HANDLING AND STORAGE   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. Avoid all contact!     Conditions for safe storage, including any incompatibilities Storage conditions:   Keep container tightly closed. Store in a cool and dark place.     Store away from incompatible materials such as oxidizing agents. Air-sensitive   Store away from incompatible materials such as oxidizing agents.	6. ACCIDENTAL RELEASE MEASU	RES			
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Methods and materials for containment and cleaning up:   Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.     7. HANDLING AND STORAGE   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. Avoid all contact!     Conditions for safe storage, including any incompatibilities Storage conditions:   Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Air-sensitive					
and cleaning up:   material should be promptly disposed of, in accordance with appropriate laws and regulations.     7. HANDLING AND STORAGE   Frecautions for safe handling:     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. Avoid all contact!     Conditions for safe storage, including any incompatibilities Storage conditions:   Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Air-sensitive					
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Conditions for safe storage, including any incompatibilities     Storage conditions:   Keep container tightly closed. Store in a cool and dark place.     Store under inert gas. Store locked up.   Store away from incompatible materials such as oxidizing agents.     Air-sensitive   Air-sensitive		Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.			
Storage conditions:   Keep container tightly closed. Store in a cool and dark place.     Store under inert gas. Store locked up.   Store away from incompatible materials such as oxidizing agents.     Air-sensitive   Air-sensitive					
Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Air-sensitive					
Store away from incompatible materials such as oxidizing agents. Air-sensitive	Storage conditions:				
Air-sensitive					
Packaging material: Comply with laws.					
	Packaging material:	Comply with laws.			

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#### Page 3 of 5

# 8. EXPOSURE CONTROLS / PERSONAL 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 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			
Odour:	No data available			
Odor threshold: Odour threshold:	No data available No data available			
Odour threshold:	No data available			
Melting point/freezing point:	90°C (194°F)	pH:	No data available	
Boiling point/range:	256°C (493°F)	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:	480°C (896°F)	
Flammability(solid, gas):	No data available	Flammability or explosive limits:		
		Lower:	No data available	
		Upper:	No data available	
Solubility(ies):				
[Water]	Soluble			
[Other solvents]				
Soluble:	Alcohols, Acetone, Chloroform, Pyridine			
Slightly soluble:	Benzene			

# 10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx) **TCI AMERICA** 

11. TOXICOLOGICAL INFORMATION
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#### RTECS Number: NI3325000

Disposal of product:	Recycle to process if possible. It is the generator's re	enoneihility to	comply with Federal State and	
13. DISPOSAL CONSIDERATIONS				
neniys Law (Faw 71101).				
Henry's Law (PaM 3/mol):	No data available			
Log Pow: Soil adsorption (Koc):	-0.02 No data available			
Mobility in soil	-0.02			
Bioaccumulative potential(BCF):	No data available			
Persistence / degradability:	90 % (by BOD) , 100 % (by TOC) , 100 % (by HPLC	)		
-				
Algae:	No data available			
Crustacea:	No data available			
Ecotoxicity: Fish:	No data available			
Ecotoxicity:				
12. ECOLOGICAL INFORMATION				
May cause damage to organs: Nervo	us System			
Target organ(s):				
יוייקי אט אין אין אנער אנער אין ארער אוויין אויייקי וואנש. אין איז				
Reproductive toxicity: ipr-mus TDLo:150 mg/kg (1D male)				
IARC: No data available		USHA:	INU UALA AVAIIADIE	
IARC: No data available	NTP: No data available	OSHA:	No data available	
Carcinogenicity: No data available				
Carcinogonicity:				
Germ cell mutagenicity: dni-hmn-oth 1 mmol/L				
Respiratory or skin sensitization: No data available				
No data available				
Serious eye damage/irritation:				
No data available				
Skin corrosion/irritation:				
Wi mus 2000.470 mg/kg		Ng		
orl-rat LD50:220 mg/kg ivn-mus LD50:475 mg/kg	scu-rat LD50:626 mg/k ipr-mus LD50:300 mg/l			
Acute Toxicity:				

Disposal of product:Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and<br/>Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent<br/>and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is<br/>intended to provide assistance but does not replace these laws, nor does compliance in accordance<br/>with this section ensure regulatory compliance according to the law. US EPA guidelines for<br/>Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not<br/>be allowed to enter the environment, drains, 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.

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#### 14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN2923	<b>Proper Shipping Name:</b> Corrosive solids, toxic, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 6.1 Toxic material.	Packing Group:
IATA UN number: UN2923	<b>Proper Shipping Name:</b> Corrosive solid, toxic, n.o.s	Class or Division: 8 Corrosive material	<b>Subrisk(s):</b> 6.1 Toxic material.	Packing Group:
IMDG UN UN2923 numb er:	<b>Proper Shipping Name:</b> Corrosive solid, toxic, n.o.s	Class or Division: 8 Corrosive material	<b>Subrisk(s):</b> 6.1 Toxic material.	Packing Group:
EmS number:	F-A, S-B			

### 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu	lations				
CERCLA Hazardo	ous substance	and Reportable Quantity:			
SARA 313:		Not Listed			
SARA 302:		Not Listed			
State Regulation	<u>s</u>				
State Right-to-Kr	now				
Massachuse	tts	Not Listed			
New Jersey		Not Listed			
Pennsylvania	a	Not Listed			
California Propos	sition 65:	Not Listed			
Other Information	<u>n</u>				
NFPA Rating:			HMIS Classification	:	
Health:	3		Health:	3	
Flammability:	1		Flammability:	1	
Instability:	0		Physical:	0	
International Inve	entories				
Canada: DSL	_	On DSL			
EC-No:		206-019-2			

### 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.