

**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.

2. HAZARD(S) IDENTIFICATION	
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 3] Acute Toxicity - Dermal [Category 3] Acute Toxicity - Inhalation [Category 3] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Aquatic Hazard (Acute) [Category 3]
Signal word:	Danger!
Hazard Statement(s):	Toxic if swallowed, in contact with skin or if inhaled Causes skin irritation Causes serious eye irritation Harmful to aquatic life
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	Avoid breathing dust, fume, mist, vapors or spray. Use only outdoors or in a well-ventilated a release to the environment. Do not eat, drink or smoke when using this product. Wash hand thoroughly after handling. Wear protective gloves, protective clothing, eye protection.
[Response]	If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with soap and water. Call a poison center or doctor if you feel unwell. Take off immediately all co clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comforta breathing. Call a poison center or doctor. If in eyes: Rinse cautiously with water for several r Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

[Storage] [Disposal]

area. Avoid ds and face h plenty of ontaminated able for minutes. sent and easy to do. Continue rinsing. If eye irritation persists: Get es, it pre medical advice or attention. Store in a well-ventilated place. Keep container tightly closed. 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]

None.

Emergency telephone number:

Transportation Emergencies:

+1-703-527-3887 (International)

Environmental Health Safety and Security

**Responsible department:** 

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

Chemical Emergencies:

+1-503-286-7624

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

+1-503-286-7624

TCI America

3-Nitrobenzonitrile N0170

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

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SAFETY DATA SHEET

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	3-Nitrobenzonitrile
Percent:	>99.0%(GC)
CAS RN:	619-24-9
Molecular Weight:	148.12
Chemical Formula:	C7H₄N₂O₂

## 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. Call a POISON CENTER or doctor/physician.			
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. 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. If eye irritation persists: Get medical advice/attention.			
Eye contact:				
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth.			
Symptoms/effects:				
Acute:	Redness.			
Delayed:	No data available			
Not available. <b>Notes to physician:</b> No data available				
5. FIRE-FIGHTING MEASURES				
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.			
Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards:	Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.			
Advice for firefighters:	Wear self-contained breathing apparatus if possible. Combat fire from a sheltered position.			
6. ACCIDENTAL RELEASE MEASU	RES			
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment	Prevent product from entering drains.			
and cleaning up	material should be promptly dispaged of in accordance with appropriate laws and regulations			

and cleaning up: 7. HANDLING AND STORAGE

Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Avoid shock and friction. Wash hands and face before breaks and immediately after handling the product. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including	any incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Be sure not to give the container unexpected impacts, such as falling down or falling off.
Packaging material:	Store away from incompatible materials such as oxidizing agents. Comply with laws.

material should be promptly disposed of, in accordance with appropriate laws and regulations.

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# 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): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder Very pale yellow - Pale No data available No data available No data available	yellow	
Melting point/freezing point:	115°C (239°F)	pH:	No data available
Boiling point/range:	165°C /2.1kPa (329°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: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits:	No data available
		Lower:	No data available
		Upper:	No data available
Solubility(ies): [Water] [Other solvents] Very soluble:	No data available Ether		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. May explosively decompose on heating, shock, friction, etc. Heat, Shock, Friction Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx) **TCI AMERICA** 

## 11. TOXICOLOGICAL INFORMATION

## RTECS Number: DI4900000

Acute Toxicity: skn-gpg LD50:>1 g/kg ipr-mus LDLo:250 mg/kg		orl-rat LDLo:50 mg/kg		
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: mmo-sat 10 ug/plate (+/-S9)	dnr-bcs 500 ug/disc			
<b>Carcinogenicity:</b> No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> No data available				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
12. ECOLOGICAL INFORMATION Ecotoxicity:				
	No data available			
Ecotoxicity:	No data available No data available			
Ecotoxicity: Fish:				
Ecotoxicity: Fish: Crustacea: Algae:	No data available No data available			
Ecotoxicity: Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF):	No data available			
Ecotoxicity: Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available No data available			
Ecotoxicity: Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow:	No data available No data available No data available No data available			
Ecotoxicity: Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available No data available No data available			
Ecotoxicity: Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc):	No data available No data available No data available No data available No data available No data available			
Ecotoxicity: Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM <sup>3</sup> /mol): <u>13. DISPOSAL CONSIDERATIONS</u> Listed waste	No data available No data available No data available No data available No data available No data available No data available	<b>,</b>		
Ecotoxicity: Fish: Crustacea: Algae: Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM <sup>3</sup> /mol): 13. DISPOSAL CONSIDERATIONS	No data available No data available and scrubber syste This section is inte accordance with th Identification and I	s if possible. It is the generator's res gulations. Consult an expert of dispo- solvent and little by little burn in a em. If a large amount of the substan ended to provide assistance but does	osal. You may chemical incir ice is burned s not replace ance accordir d in 40 CFR I	v be able to dissolve or mix material nerator equipped with an afterburner at a time, an explosion may occur. these laws, nor does compliance in ng to the law. US EPA guidelines for Parts 261. The product should not

#### 3-Nitrobenzonitrile

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### 14. TRANSPORT INFORMATION

EmS number:	F-A, S-A		
IMDG UN UN3439 numb er:	<b>Proper Shipping Name:</b> Nitriles, solid, toxic, n.o.s	Class or Division: 6.1 Toxic material.	Packing Group: III
<u>IATA</u> UN number: UN3439	Proper Shipping Name: Nitriles, solid, toxic, n.o.s	Class or Division: 6.1 Toxic material.	Packing Group:
DOT (US) UN number: UN3439	Proper Shipping Name: Nitriles, solid , toxic, n.o.s	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group: III

## 15. REGULATORY INFORMATION

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

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

US Federal Regul	ations			
CERCLA Hazardo	ous substance and	Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulations	<u>s</u>			
State Right-to-Kn	ow			
Massachuset	ts	Not Listed		
New Jersey		Not Listed		
Pennsylvania	1	Not Listed		
California Propos	sition 65:	Not Listed		
Other Information	<u>ı</u>			
NFPA Rating:			HMIS Classification:	
Health:	1		Health:	1
Flammability:	0		Flammability:	0
Instability:	0		Physical:	0
International Inve	entories			
Canada: NDSL		On NDSL		
EC-No:		210-587-7		

## 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.