

Revision number: 1 Revision date: 07/06/2018

1. II

TCI AMERICA SAFETY DATA SHEET

1. IDENTIFICATION		
Product name: Product code:	Benzonitrile B0082	
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household 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		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		
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 4] Acute Toxicity - Inhalation [Category 3] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Specific Target Organ Toxicity (Single Exposure) Specific Target Organ Toxicity (Single Exposure) Specific Target Organ Toxicity (Repeated Exposure) Specific Target Organ Toxicity (Repeated Exposure) Flammable Liquids [Category 4] Aquatic Hazard (Acute) [Category 3]	[Category 3]
Signal word:	Danger!	
Hazard Statement(s):	Combustible liquid Toxic if inhaled Harmful if swallowed or in contact with skin Causes skin irritation Causes serious eye irritation Harmful to aquatic life	

May cause damage to organs: Central Nervous System

May cause respiratory irritation.

Pictogram(s) or Symbol(s):

Precautionary Statement(s): [Prevention]



Keep away from flames and hot surfaces. - No smoking. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, eye protection.

May cause damage to organs through prolonged or repeated exposure: Liver Central Nervous System

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. Call a poison center or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. If eye irritation persists: Get medical advice or attention. If exposed or concerned: Call a poison center or doctor. In case of fire: Use dry chemical, dry sand or foam to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

[Response]

Packaging material:

Comply with laws.

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[Disposal]	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]	Vesicant
3. COMPOSITION/INFORMATION O	N INGREDIENTS
Substance/mixture: Components:	Substance Benzonitrile
Percent:	>99.0%(GC)
CAS RN:	100-47-0
Molecular Weight:	103.12
Chemical Formula:	C7H₅N
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.
Eye contact:	Call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Ingestion:	Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician. Rinse mouth.
ingestion.	
Symptoms/effects:	
Acute:	Redness.
Delayed:	May have effects on the respiratory tract.
Indication of any immediate medical atto	ention:
Not available.	
Notes to physician: No data available	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide. Solid streams of water
Hazardous combustion products: Other specific hazards:	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.
6. ACCIDENTAL RELEASE MEASU	RES
Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to 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	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large
and cleaning up:	amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly
Prevention of secondary hazards:	disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.
	Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including a	ny incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up.
– • • • • •	Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.

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:	Half or full facepiece 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: Odour threshold:	Liquid Clear Colorless - Almost colorles Characteristic No data available	s	
Odour threshold:	No data available		
Melting point/freezing point: Boiling point/range:	No data available 191°C (376°F) No data available	pH: Vapour pressure: Vapour density	No data available No data available.
Decomposition temperature: Relative density: Kinematic viscosity:	1.01 No data available	Vapour density: Dynamic Viscosity:	3.6 No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	75°C (167°F) No data available	Autoignition temperature: Flammability or explosive limits:	No data available
		Lower:	No data available
		Upper:	No data available
Solubility(ies):) (an alighth a gluble		
[Water]	Very slightly soluble		
[Other solvents] Miscible:	Ether, Alcohols		
Soluble:	Benzene, Acetone		

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. No special reactivity has been reported. Open flame Oxidizing agents, Strong acids, Strong bases, Reducing agents Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

RTECS Number: DI2450000

Acute Toxicity: ihl-rat LCLo:950 ppm/8H orl-rat LDLo:720 mg/kg		orl-mam LD50:800 mg/ skn-rat LD50:1200 mg/l		
Skin corrosion/irritation: skn-rbt 500 mg/24H MOD				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: sln-smc 1580 mg/L				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Target organ(s): May cause damage to organs: Central Nervous System May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure: Liver Central Nervous System				
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish: Crustacea: Algae:	No data available No data available No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³/mol):	63.4% (by BOD) No data available 1.56 No data available No data available			

13. DISPOSAL CONSIDERATIONS	
Listed waste	U197/p-Benzoquinone
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN2224	Proper Shipping Na Benzonitrile	me:	Class or Division: 6.1 Toxic material.	Packing Group:
IATA UN number: UN2224	Proper Shipping Na Benzonitrile	me:	Class or Division: 6.1 Toxic material.	Packing Group: II
IMDG UN UN2224 numb er:	Proper Shipping Na Benzonitrile	me:	Class or Division: 6.1 Toxic material.	Packing Group: II
EmS number: Reportable Quanti	tiy:	F-A, S-A 5000 Pounds (2270	Kilograms)	

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 Hazardous substance and Reportable Quantity:				
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulations	e			
State Right-to-Kn				
Massachuse		Listed		
New Jersey	_	Listed		
Pennsylvania		Listed		
California Propos	sition 65:	Not Listed		
Other Information	n			
NFPA Rating:	<u> </u>		HMIS Classification:	
Health:	2		Health:	
Flammability:	2		Flammability:	
Instability:	0		Physical:	
mstability.	0		Filysical.	
International Inve	ntories			
Canada: DSL	mones	On DSL		
EC-No:		202-855-7		
EC-NU.		202-855-7		

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.

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