

Revision number: 3 Revision date: 10/06/2014

1. IDENTIFICATION

[Response]

[Storage]

Substance/Mixture:

Components: Percent:

CAS Number:

Synonyms:

Molecular Weight:

Chemical Formula:

4. FIRST-AID MEASURES

[Disposal]

Hazards not otherwise classified: [HNOC] Causes mild skin irritation.

Substance 3-Butoxypropionitrile

>96.0%(GC)

6959-71-3

C7H13NO

1-(2-Cyanoethoxy)butane

127.19

3. COMPOSITION/INFORMATION ON INGREDIENTS

TCI	AMERICA
SAFE	TY DATA SHEET

Product name: Product code:	3-Butoxypropionitrile B0959
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
OSHA Haz Com: CFR 1910.1200:	Eye Damage/Irritation [Category 2B] Flammable Liquids [Category 4]
Signal word:	Warning!
Hazard Statement(s):	Causes eye irritation Combustible liquid
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s): [Prevention]	Wash hands and face thoroughly after handling. Keep away from heat, sparks, open flames or other hot

surfaces. - No smoking. Wear protective gloves, eye protection and face protection.

chemical, CO2, water spray or alcohol-resistant foam to extinguish.

determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Store in well-ventilated place. Keep cool.

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. In case of fire: Use dry

Dispose of contents and container in accordance with US EPA guidelines for the classification and

4. FIRST-AID MEASURES	
Inhalation:	Call emergency medical service. 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:	Call a poison center or doctor if you feel unwell. 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 themselves.
Eye contact:	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) involved and take precautions to protect themselves.
Ingestion:	Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. 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
Immediate 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 , water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the cher	
Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides

Special precautions for fire-fighters:

Other specific hazards:

Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient. Do not use straight streams. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Move containers from fire area if you can do it without risk. **Special protective equipment for fire-fighters:**

Closed containers may explode from heat of a fire.

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. Use spark- proof tools and explosion-proof equipment. Remove all sources of ignition. 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:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Isolate area until gas has dispersed. 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). All equipment used when handling the product must be grounded. 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.

7. HANDLING AND STORAGE

Precautions for safe handling:	Do NOT breath gas, fumes, vapor, or spray. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. 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:	Keep only in the original container in a cool well-ventilated place. Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Hygroscopic material, store in a tightly sealed container.
Storage incompatibilities:	Combustible substances, Store away from oxidizing agents

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:Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.Hand protection:Wear protective gloves.Eye protection:Splash goggles.Skin and body protection:Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Liquid Clear Colorless - Slightly pale ye No data available No data available	sllow	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available 206°C (403°F) No data available 0.89 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):	89°C (192°F) No data available	Autoignition temperature: Flammability or explosive limits Lower: No data av Upper: No data av	ailable

Solubility(ies):

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) In use, may form flammable/explosive vapor-air mixture. Avoid excessive heat and light. Oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

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RTECS Number: UG1225000		
Acute Toxicity: ipr-mus LD50:500 mg/kg	orl-rat LD50:7460 mg/kg	
skn-rbt LD50:8980 uL/kg		
Skin corrosion/irritation: skn-rbt 500 mg/24H MLD		
Serious eye damage/irritation: eye-rbt 500 mg/24H MLD	eye-rbt 500 mg open	
Respiratory or skin sensitization: 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
Reproductive toxicity: No data available		
Routes of Exposure: Symptoms related to exposure: Eye contact may result in redness or pain. Potential Health Effects: Skin and eye contact may result in irritation Target organ(s):	Inhalation, Eye contact, Ingestion, Skin contact. Skin contact may result in redness, pain or dry skin. No data available	
12. ECOLOGICAL INFORMATION		
Ecotoxicity		
Fish: Crustacea:	No data available No data available	
Algae:	No data available	
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol)	No data available No data available No data available No data available No data available No data available	
13. DISPOSAL CONSIDERATIONS		
Disposal of product:	Recycle to process if possible. It is the generator's responsib rules and regulations. You may be able to dissolve or mix ma chemical incinerator equipped with an afterburner and scrub assistance but does not replace these laws, nor does compli regulatory compliance according to the law. US EPA guidelir Waste are listed in 40 CFR Parts 261. The product should no water ways, or the soil.	aterial with a combustible solvent and burn in a ber system. This section is intended to provide ance in accordance with this section ensure thes for Identification and Listing of Hazardous
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containe Observe all federal, state and local regulations when disposi	
14. TRANSPORT INFORMATION		
DOT (US)	Non-hazardous for transportation.	

TCI AMERICA

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14. TRANSPOR	T INFORMATIO				
ΙΑΤΑ		Non-hazardous for	transportation.		
IMDG		Non-hazardous for	Non-hazardous for transportation.		
15. REGULATO	RY INFORMAT	ION			
Toxic Substance (This product is ON	Control Act (TSC the EPA Toxic S	A 8b.): ubstances Control Act (TSCA	() inventory.		
US Federal Regula	ations				
		d Reportable Quantity:			
SARA 313: SARA 302:		Not Listed Not Listed			
5ARA 302:		Not Listed			
State Regulations	_				
State Right-to-Kno	ow.				
Massachus		Not Listed			
New Jerse		Not Listed			
Pennsylva California Proposi		Not Listed Not Listed			
ounorna ropoo					
Other Information					
NFPA Rating:			HMIS Classification:		
Health:	0		Health:	0	
Flammability:	2		Flammability:	2	
Instability:	0		Physical:	0	
International Inver	ntories				
WHMIS hazard cla	ISS:	B3: Combustible Lid	quid.		
		D2B: Materials caus	sing other toxic effects. (Te	oxic)	
EC-No:		230-153-0			

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