

Safety Data Sheet 3137902 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/19/2020 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	Substance		
Substance name	Bromoacetonitrile		
CAS No	590-17-0		
Product code	3137-9-02		
Formula	C2H2BrN		
Synonyms	Bromomethyl cyanide		
Other means of identification	MFCD00001884		
	nce or mixture and uses advised against		
	Laboratory chemicals		
	Manufacture of substances Scientific research and development		
1.3. Details of the supplier of the safety da	ita sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com			
1.4. Emergency telephone number			
Emergency number	(844) 523-4086 (3E Company - Account 10069)		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mix	ture		
Classification (GHS-US)			
Acute Tox. 3 (Oral)H301 - Toxic if swallowedAcute Tox. 3 (Dermal)H311 - Toxic in contact with skinAcute Tox. 3 (Inhalation)H331 - Toxic if inhaledSkin Irrit. 2H315 - Causes skin irritationEye Dam. 1H318 - Causes serious eye damageSTOT SE 3H335 - May cause respiratory irritationFull text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS05 GHS06 GHS07		
Signal word (GHS-US)	Danger		
Hazard statements (GHS-US)	H301+H311+H331 - Toxic if swallowed, in conta H315 - Causes skin irritation H318 - Causes serious eye damage H335 - May cause respiratory irritation	ct with skin or if inhaled	
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing fumes, mist, spray, vapoid P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using the P271 - Use only outdoors or in a well-ventilated at P280 - Wear protective gloves/protective clothing</li> <li>P301+P310 - If swallowed: Immediately call a pc P302+P352 - If on skin: Wash with plenty of soal P304+P340 - If inhaled: Remove person to fresh P305+P351+P338 - If in eyes: Rinse cautiously vienses, if present and easy to do. Continue rinsin P310 - Immediately call a POISON CENTER or of P311 - Call a POISON CENTER or doctor/physic</li> </ul>	is product area //eye protection/face protection ison center/doctor/ o and water air and keep comfortable for breathing with water for several minutes. Remove cont g doctor/ physician	tact
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	<ul> <li>P321 - Specific treatment (see supplement P330 - Rinse mouth</li> <li>P332+P313 - If skin irritation occurs: Get n</li> <li>P361 - Take off immediately all contaminate</li> <li>P362+P364 - Take off contaminated clothing</li> <li>P363 - Wash contaminated clothing before</li> <li>P403+P233 - Store in a well-ventilated plane</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an</li> </ul>	nedical advice/atte ted clothing ng and wash it bef e reuse ce. Keep containe	ntion ore reuse r tightly closed
2.3. Other hazards			
Other hazards not contributing to the : classification	Lachrymator.		
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	on ingredients		
3.1. Substance			
Substance type :	Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Bromoacetonitrile (Main constituent)	(CAS No) 590-17-0	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
4.1.         Description of first aid measures           First-aid measures general         :	In case of accident or if you feel unwell, se where possible). Move the affected person	nel away from the	contaminated area.
4.1.         Description of first aid measures           First-aid measures general         :           First-aid measures after inhalation         :	where possible). Move the affected person Remove person to fresh air and keep com respiration. Get immediate medical advice/	nel away from the fortable for breathi /attention.	contaminated area. ng. If not breathing, give artificial
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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equi		
General measures	Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.	
6.1.1. For non-emergency personnel		
Emergency procedures :	Only qualified personnel equipped with suitable protective equipment may intervene.	
6.1.2. For emergency responders		
Protective equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures :	Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.	
6.2. Environmental precautions		
Avoid release to the environment. Notify authorities	if product enters sewers or public waters.	
6.3. Methods and material for containment	and cleaning up	
For containment :	Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.	
Methods for cleaning up :	Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.	
Other information :	For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4. Reference to other sections		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling :	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.	
Hygiene measures :	Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including	any incompatibilities	
Technical measures :	Comply with applicable regulations.	
Storage conditions :	Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.	
Incompatible materials :	Refer to Section 10 on Incompatible Materials.	
Storage area :	Store in dry, cool, well-ventilated area.	
SECTION 8: Exposure controls/persor	al protection	
8.1. Control parameters		
No additional information available		
8.2. Exposure controls		
Appropriate engineering controls	Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.	
Hand protection :	Protective gloves. 29 CFR 1910.138: Hand Protection.	
Eye protection :	Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.	
Skin and body protection :	Wear suitable protective clothing.	
Respiratory protection :	In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.	
Other information :	Safety shoes. 29 CFR 1910.136: Foot Protection.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
	Liquid	

Physical state	: Liquid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
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рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 148 - 150 °C
Flash point	: 110 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.722 g/ml (@ 25 °C)
Molecular mass	: 119.948 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.479 (@ 20 °C)
<b>SECTION 10: Stability and reactivit</b>	ty
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	storage conditions.
10.3. Possibility of hazardous reactions	ŝ
No additional information available	
10.4. Conditions to avoid	
Keep away from heat sparks and flame	

Keep away from heat, sparks and flame.

#### 10.5. **Incompatible materials** Strong bases. Strong oxidizing agents. Strong reducing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information		
11.1.	Information on toxicological effects	

### Acute toxicity

Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.

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0507		
SECT	CTION 12: Ecological information	
12.1.	Toxicity	
No add	dditional information available	
12.2.	Persistence and degradability	
No add	dditional information available	
12.3.	Bioaccumulative potential	
No add	dditional information available	
12.4.	Mobility in soil	
No add	dditional information available	
12.5.	Other adverse effects	

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Additional information	: Recycle the material as far as possible.	

### **SECTION 14: Transport information**

### Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

DOT Symbols

DOT Special Provisions (49 CFR 172.102)

- : UN3276 Nitriles, liquid, toxic, n.o.s., 6.1, III
- : UN3276
- : Nitriles, liquid, toxic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name
- : IB3 Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T7 - 4 178.274(d)(2) Normal............ 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling  $= 07/(1 + 2) (t_{res} - t_{res}) (t_{res} - t_{re$ 

following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153

DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27)

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	52 - Stow "separated from" acids
Other information	:	No supplementary information available.

### TDG

No additional information available

Transport by sea	
UN-No. (IMDG)	: 3276
Proper Shipping Name (IMDG)	: NITRILES, LIQUID, TOXIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3276
Proper Shipping Name (IATA)	: Nitriles, toxic, liquid, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger

## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

	Bromoacetonitrile	CAS No 590-17-0	100%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

### **SECTION 16: Other information**

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full tex	t of H-phrases:				
	Acute Tox. 3 (Dermal)		Acute toxicity (dermal) Category 3		
	Acute Tox. 3 (Inhalation)		Acute toxicity (inhalation) Category 3		
	Acute Tox. 3 (Oral)		Acute toxicity (oral) Category 3		
	Eye Dam. 1		Serious eye damage/eye irritation Category 1		
	Skin Irrit. 2		Skin corrosion/irritation Category 2		
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3		
	H301		Toxic if swallowed		
	H311		Toxic in contact with skin		
	H315		Causes skin irritation		
	H318		Causes serious eye damage		
	H331		Toxic if inhaled		
	H335		May cause respiratory irritation		
incapacitation or poss medical attention is g		incapacitation or possi medical attention is giv			
NFPA fire hazard			: 1 - Must be preheated before ignition can occur.		
		: 0 - Normally stable, ev and are not reactive w	en under fire exposure conditions,		
HMIS I	II Rating				
Health : 3 Serious Hazard - Maj given			lajor injury likely unless prompt action is taken and medical treatment is		
Flamm	Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. In solids and semi solids having a flash point above 200 F. (Class IIIB)				
			laterials that are normally stable, even under fire conditions, and will NOT merize, decompose, condense, or self-react. Non-Explosives.		

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.