

3-Bromothiophene Safety Data Sheet P612A43 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/25/2017 Version: 1.0

SECTION 1: Identifi	ication
1.1. Identification	Cultataraa
Product form	: Substance
Substance name	: 3-Bromothiophene
CAS No	: 872-31-1
Product code	: P612-A-43
Formula	: C4H3BrS
Other means of identification	tion : MFCD00005464
1.2. Relevant identi	ified uses of the substance or mixture and uses advised against
Use of the substance/mixt	ture : Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the s	supplier of the safety data sheet
SynQuest Laboratories, In	nc.
P.O. Box 309 Alachua, FL 32615 - Unite T (386) 462-0788 - F (386 info@synquestlabs.com -	§) 462-7097
1.4. Emergency tele	ephone number
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard	I(s) identification
2.1. Classification of	of the substance or mixture
Classification (GHS-US)	
Flam. Liq. 3 Acute Tox. 3 (Oral) Acute Tox. 2 (Dermal) Acute Tox. 1 (Inhalation) Skin Irrit. 2 Eye Irrit. 2A Skin Sens. 1 STOT SE 3 Aquatic Acute 2 Aquatic Chronic 2 Full text of H-phrases: see 2.2.	
	S
GHS-US labeling	
Hazard pictograms (GHS-	-US) : GHS02 GHS06 GHS07 GHS09
Signal word (GHS-US)	: Danger
Hazard statements (GHS-	
Precautionary statements	

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P243 - Take precautionary measures against static discharge
P260 - Do not breathe fumes, mist, spray, vapors
P262 - Do not get in eyes, on skin, or on clothing
P264 - Wash skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing must not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P284 - In case of inadequate ventilation wear respiratory protection
P301+P310 - If swallowed: Immediately call a poison center/doctor/
P302+P352 - If on skin: Wash with plenty of soap and water
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/ physician
P320 - Specific treatment is urgent (see supplemental first aid instructions on this label)
P321 - Specific treatment (see supplemental first aid instructions on this label)
P330 - Rinse mouth
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P361 - Take off immediately all contaminated clothing
P362+P364 - Take off contaminated clothing and wash it before reuse
P363 - Wash contaminated clothing before reuse
P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
P391 - Collect spillage
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

Other hazards not contributing to the : Stench. classification

2.4. Unknown acute toxicity (GHS US)

Not applicable

Substance 3.1.

Substance type : Mono-constituent

Name	Product identifier	%	Classification (GHS-US)
3-Bromothiophene (Main constituent)	(CAS No) 872-31-1	<= 100	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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			
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.		
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		

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2.2) and/or in section 11. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting media 5.1. Extinguishing media 5.2. Special hazards arising from the substance or mixture Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Nitrogen oxides. Sull oxids. Explosion hazard : Risk of explosion if heated under confinement. Use water spray or log for cooling exposed containers. May form flammabile/explosive vapor air mixture. 5.3. Advice for firefighters : In case of fire. Evacuate area. Fight fire remotely due to the risk of explosion. Protection during firefighting : Waar gas tight chemically protective clothing in contained threating apparatus. For further information refer to section 8: "Exposure controls/personal protection" SECTION 6: Accidental release measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fum vapor or spray. 6.1.1. For non-emergency personnel : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protective use to possible soor gampt. 6.1.2. For emergency responders : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 6.2. Environmental precautions : Stop tak if asle to do so. Dike for	First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.
Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 1.2.) 4.3. Indication of any Immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures Soluble extinguishing media : Alcohol resistant feam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media Soluble extinguishing media : Alcohol resistant feam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding frie. 5.2. Special hazards arising from the substance or mixture Explosion hazard : Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Nitrogen oxides. Sull owdes. 5.3. Advice for firefighters Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Nitrogen oxides. Sull owdes. 5.3. Advice for firefighters Firefighting instructions : In case of fre: Evacuate area. Fight fire remotely due to the risk of explosion. Protection during firefighting : Waar gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refor to section 8: "Exposure controls/personal protection? ESECTION 6: Accidental rolease measures : Evacuate unceases any personnel Ensure adequate air ventilation. Do not breathe gas, furne vapor or spray. E.1.1. For non-emergency presonnel Ensure adequate air ventilation. Do not breathe gas, furne vapor or spray. E.1.2. For emergency responders Frotoctive equipment is 'Exposure controls/personal protection? Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. E.2. For emergency responders : Containents. Texposure controls/personal protection? Emergency procedures : Containents and the risk of avoid waters. E.3. Methods and material for containent and the regress or public waters. E.3. Methods and material for containent and the regress or public waters. E.3. Contromental processed : Containents advice protective equipment may intervene. E.4. Re	4.2. Most important symptoms and	d effects, both acute and delayed
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refer to section 8: "Exposure controls/personal protection". Emergency procedures : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below grou level. Consider the risk of potentially explosive atmospheres. Eliminate every possible sourc ignition. 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 show 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 : Handle empty containers with care because residual vapors are flammable. 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. Keep away from ignition sources (inclouding static discharges). Proper grounding procedures to avoid st		
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Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink	Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or

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7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal 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 c	hemical properties
Physical state	: Liquid
Color	: No data available
Odor	: Stench.
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 92 - 93 °C (@ 90 mm Hg)
Flash point	: 52 °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	: 1.74 g/ml (@ 25 °C)
Molecular mass	: 163.04 g/mol
Solubility	: No data available
Log Pow	: 2.62
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	: 1.591 (@ 20 °C)
SECTION 10: Stability and reactivity	

10.1. Reactivity No additional information available

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10.2. Chemical stability The product is stable at normal handling and storage conditions. 10.3. Possibility of hazardous reactions No additional information available 10.4. Conditions to avoid 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	: Oral: Toxic if swallowed. Dermal: Fatal in contact with skin. Inhalation: Fatal if inhaled.	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information			
I2.1. Toxicity			
3-Bromothiophene (872-31-1)			
LC50 fish 1	5.65 - 6.77 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
12.2. Persistence and degradability			
No additional information available			
12.3. Bioaccumulative potential	2.3. Bioaccumulative potential		
3-Bromothiophene (872-31-1)			
Log Pow	2.62		
12.4. Mobility in soil			
No additional 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.	

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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) Dangerous for the environment Marine pollutant

- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)
- DOT Symbols
- DOT Special Provisions (49 CFR 172.102)

- : UN2929 Toxic liquids, flammable, organic, n.o.s., 6.1, II
- : UN2929
- : Toxic liquids, flammable, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison
- 3 Flammable liquid



- : II Medium Danger
- : Yes
- : Yes
- : 202 : 243
- : G Identifies PSN requiring a technical name

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 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.

passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

DOT Packaging Exceptions (49 CFR 173.xxx)	:	153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25

DOT Vessel Stowage Other Other information

TDG

No additional information available

section is exceeded.

: 40 - Stow "clear of living guarters"

No supplementary information available.

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Transport by sea	
UN-No. (IMDG)	: 2929
Proper Shipping Name (IMDG)	: TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 2929
Proper Shipping Name (IATA)	: Toxic liquid, flammable, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

3-Bromothiophene (872-31-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

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

3-Bromothiophene (872-31-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

3-Bromothiophene (872-31-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on NZIOC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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

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Full text of H-phrases:			
Acute Tox. 1 (Inhalation)	Acute toxicity (inhalation) Category 1		
Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2		
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3		
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2		
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2		
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A		
Flam. Liq. 3	Flammable liquids Category 3		
Skin Irrit. 2	Skin corrosion/irritation Category 2		
Skin Sens. 1	Skin sensitization Category 1		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H226	Flammable liquid and vapor		
H301	Toxic if swallowed		
H310	Fatal in contact with skin		
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H319	Causes serious eye irritation		
H330	Fatal if inhaled		
H335	May cause respiratory irritation		
H401	Toxic to aquatic life		
H411	Toxic to aquatic life with long lasting effects		
NFPA health hazard NFPA fire hazard	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 2 - Must be moderately heated or exposed to relatively high 		
	temperature before ignition can occur.		
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.		
HMIS III Rating			
Health	: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures		
Flammability	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) 		
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, 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.