

Benzo[b]thiophene Safety Data Sheet 5H661X0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/28/2018 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: Benzo[b]thiophene		
CAS No			
	: 95-15-8		
Product code	: 5H66-1-X0		
Formula	: C8H6S		
Synonyms	: Thianaphthene; 1-Benzothic	phene	
Other means of identification	: MFCD00005864		
1.2. Relevant identified uses of the subs	tance or mixture and uses adv	ised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and deve	opment	
1.3. Details of the supplier of the safety of	data 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	<u>1</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compar	y - Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or m	ixture		
Classification (GHS-US) Acute Tox. 4 (Oral) H302 - Harmful if swallow			
Skin Irrit. 2H315 - Causes skin irritatiEye Irrit. 2AH319 - Causes serious eySTOT SE 3H335 - May cause respiraAquatic Acute 2H401 - Toxic to aquatic lifAquatic Chronic 2H411 - Toxic to aquatic lifCull toxt of Ll physical cause conting 16	e irritation tory irritation e		
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS07 GHS09	>	
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye H335 - May cause respirator H411 - Toxic to aquatic life w	y irritation	
Precautionary statements (GHS-US)	P261 - Avoid breathing dust P264 - Wash skin thoroughly P270 - Do not eat, drink or s P271 - Use only outdoors or P273 - Avoid release to the P280 - Wear protective glow P301+P312 - If swallowed: (P302+P352 - If on skin: Was P304+P340 - If inhaled: Ren P305+P351+P338 - If in eye lenses, if present and easy t	fumes, mist, spray, vapors after handling moke when using this product in a well-ventilated area environment es/protective clothing/eye protection/face protect all a POISON CENTER or doctor/ physician if y h with plenty of soap and water hove person to fresh air and keep comfortable for s: Rinse cautiously with water for several minute to do. Continue rinsing	ou feel unwell r breathing s. Remove contact
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	P321 P330 P332 P337 P362 P391 P403 P405	 Call a POISON CENTER or doctor/ph Specific treatment (see supplemental - Rinse mouth +P313 - If skin irritation occurs: Get mec +P313 - If eye irritation persists: Get me +P364 - Take off contaminated clothing Collect spillage +P233 - Store in a well-ventilated place. Store locked up Dispose of contents/container to an ap 	first aid instruct dical advice/atte dical advice/atte and wash it bef Keep containe	ions on this label) ention fore reuse r tightly closed
2.3. Other hazards	-			
Other hazards not contributing to the classification	: Stend	ch.		
2.4. Unknown acute toxicity (GHS US)			
Not applicable				
SECTION 3: Composition/informat	tion on in	gredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Benzo[b]thiophene (Main constituent)		(CAS No) 95-15-8	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Full text of H-phrases: see section 16				
3.2. Mixture				
SECTION 4: First aid measures				
SECTION 4: First aid measures 1.1. Description of first aid measures	: In cas	se of accident or if you feel unwell, seek e possible). Move the affected personne		
SECTION 4: First aid measures 1.1. Description of first aid measures First-aid measures general	: In cas where : Remo		l away from the able for breathi	contaminated area.
SECTION 4: First aid measures 1.1. Description of first aid measures First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	: In cas where : Remo respin : Wash	e possible). Move the affected personnel ove person to fresh air and keep comfort ration. Get immediate medical advice/att n with plenty of soap and water. Get imm	I away from the table for breathin tention. Tediate medical	contaminated area. ng. If not breathing, give artificial advice/attention.
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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures :	Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. Do not breathe gas, fumes, vapor or spray.		
6.1.1. For non-emergency personnel			
	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".		
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 :	Minimize generation of dust. 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 dust, 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.		
Incompatible materials :	Refer to Section 10 on Incompatible Materials.		
Storage area :	Store in dry, cool, well-ventilated area.		
SECTION 8: Exposure controls/persor	nal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
	Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers		
Hand protection	should be available in the immediate vicinity of any potential exposure. 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.		
	Wear suitable protective clothing.		
, ,	In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory		
Other information :	Protection. Safety shoes. 29 CFR 1910.136: Foot Protection.		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and che Physical state	Solid		
Appearance : Color :	Low melting solid. No data available		
Odor :			
Odor threshold	Stench. No data available		

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рН	: No data available
Melting point	: 28 - 33 °C
Freezing point	: No data available
Boiling point	: 221 - 222 °C
Flash point	: 91 °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	: 1.149 g/ml
Molecular mass	: 134.198 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	: 1.6374 (@ 37 °C)
SECTION 10: Stability and reactivit	y .
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	\$
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flame.	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition produc	ts
Under normal conditions of storage and use, h fire, see Section 5.	nazardous decomposition products should not be produced. Hazardous decomposition products in case of

SECTION 11: Toxicological information			
11.1.	Information on toxicological effects		

Acute toxicity	: Oral: Harmful if swallowed.	: Oral: Harmful if swallowed.	
Benzo[b]thiophene (95-15-8)			
ATE US (oral)	500.000 mg/kg body weight		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
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Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	itional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No addi	itional information available
12.4.	Mobility in soil
No addi	itional 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) Dangerous for the environment Marine pollutant

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN3077 Environmentally hazardous substances, solid, n.o.s., 9, III

- : UN3077
- : Environmentally hazardous substances, solid, n.o.s.
- : 9 Class 9 Miscellaneous hazardous material 49 CFR 173.140
- : 9 Class 9 (Miscellaneous dangerous materials)



- : III Minor Danger
- : Yes



- : 213
- : 240
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.
	146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin,
	transit or destination.
	335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.
	A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg: a. Metal: 11A, 11B, 11N, 21A, 21B and 21N
	b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2
	c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2
	d. Fiberboard: 11G e. Wooden: 11C, 11D and 11F (with inner liners)
	f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner). B54 - Open-top, sift-proof rail cars are also authorized.
	IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).
	IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.
	N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.
	T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and
	powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of
	packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3077
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class (IMDG)	: 9 - Miscellaneous dangerous compounds
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3077
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	

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SECTION 15: Regulatory information
15.1. US Federal regulations
Benzo[b]thiophene (95-15-8)
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

Benzo[b]thiophene (95-15-8)

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

EU-Regulations

No additional information available

National regulations

Benzo[b]thiophene (95-15-8)

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 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

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4		
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		
Skin Irrit. 2	Skin corrosion/irritation Category 2		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H302	Harmful if swallowed		
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H335	May cause respiratory irritation		
H401	Toxic to aquatic life		
H411	Toxic to aquatic life with long lasting effects		

NFPA health hazard

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

: 0 - Normally stable, even under fire exposure conditions,

: 1 - Must be preheated before ignition can occur.

and are not reactive with water.

3 0

Safety Data Sheet

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

HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
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.