

2-Methoxy-4-(tributyIstannyl)-1,3-thiazole

Safety Data Sheet 9H501Z0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/04/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2-Methoxy-4-(tributylstanny	I)-1 3-thiazole	
CAS No	: 927391-09-1		
Product code	: 9H50-1-Z0		
Formula	: C16H31NOSSn	telle de la terrer en e	
Synonyms	: (2-Methoxy-1,3-thiazol-4-yl)	tributyistannane	
Other means of identification	: MFCD07787372		
1.2. Relevant identified uses of the sul		vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev	elopment	
1.3. Details of the supplier of the safet	y 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.co	om		
1.4. Emergency telephone number	(844) 522 4086 (25 Compa	ny (Account 10000)	
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
SECTION 2: Hazard(s) identificatio	n		
2.1. Classification of the substance or	mixture		
Classification (GHS-US)			
Acute Tox. 3 (Oral)H301 - Toxic if swallAcute Tox. 4 (Dermal)H312 - Harmful in coSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes sericSTOT SE 3H335 - May cause reSTOT RE 1H372 - Causes damaFull text of H-phrases: see section 16	ontact with skin irritation ous eye irritation	or repeated exposure	
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS06 GHS07	GHS08	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H301 - Toxic if swallowed H312 - Harmful in contact v H315 - Causes skin irritatio H319 - Causes serious eye H335 - May cause respirato H372 - Causes damage to	n irritation	
Precautionary statements (GHS-US)	 P260 - Do not breathe dust P264 - Wash skin thorough P270 - Do not eat, drink or P271 - Use only outdoors of P280 - Wear protective glov P301+P310 - If swallowed: P302+P352 - If on skin: Wa P304+P340 - If inhaled: Re P305+P351+P338 - If in ey lenses, if present and easy 	fume/gas/mist/vapors/spray ly after handling smoke when using this product r in a well-ventilated area res/protective clothing/eye protection/face protection Immediately call a poison center/doctor/ sh with plenty of soap and water move person to fresh air and keep comfortable for b es: Rinse cautiously with water for several minutes. to do. Continue rinsing	preathing Remove contact
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P312 - Call a POISON CENTER or doctor/physician if you feel unwell P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant				
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informati	ion on ir	gredients		
3.1. Substance				
Substance type	: Mone	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Methoxy-4-(tributylstannyl)-1,3-thiazole (Main constituent)		(CAS No) 927391-09-1	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE 1, H372
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	wher	se of accident or if you feel unwell e possible). Move the affected per	rsonnel away from th	e contaminated area.
First-aid measures after inhalation		ove person to fresh air and keep or ration. Get immediate medical adv		hing. If not breathing, give artificial
First-aid measures after skin contact		h with plenty of soap and water. G		
First-aid measures after eye contact	pres	ent and easy to do. Continue rinsir	ng. Get immediate m	
First-aid measures after ingestion		IOT induce vomiting. Never give a h out with water. Get immediate n		
4.2. Most important symptoms and eff	ects, both	acute and delayed		
Symptoms/injuries		most important known symptoms a and/or in section 11.	and effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate media	al attentic	on and special treatment needed	l	
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide opriate for surrounding fire.	. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance	or mixture		
Fire hazard		mal decomposition generates: Ca	rbon oxides. Nitroger	n oxides. Sulfur oxides. Tin/tin
Explosion hazard	: Risk	of explosion if heated under confination in the second sec	nement. Use water s	pray or fog for cooling exposed
5.3. Advice for firefighters				
			e remotely due to the	

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SECTION 6: Accidental release m		
6.1. Personal precautions, protective	equipment and emergency procedures	
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 auth	orities if product enters sewers or public waters.	
6.3. Methods and material for contain	ment 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.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator	
Storage area	: Store in dry, well-ventilated area.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

0.0

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			
Physica	l state	: Liquid		
Color		: No data available		
Odor		: No data available		
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Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
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
Molecular mass	: 404.20 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

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
lladorr	armal conditions of storage and use, becardous decomposition products should not be produced. Upperdous decomposition products in some of

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

SECTI	SECTION 11: Toxicological information		
11.1.	Information on toxicological effects		

Acute toxicity	: Oral: Toxic if swallowed. Dermal: Harmful in contact with skin.
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
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.

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Specific target organ toxicity (repeated	: Causes damage to organs through prolonged or repeated exposure.
exposure)	

Aspiration hazard

: Not classified

OFOT	ION 49. Eaclasiant information
SECT	ION 12: Ecological information
12.1.	Toxicity
No add	tional information available
12.2.	Persistence and degradability
No add	tional information available
12.3.	Bioaccumulative potential
No add	tional information available
12.4.	Mobility in soil
No add	tional information available

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

: UN2788 Organotin compounds, liquid, n.o.s., 6.1, III

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

Packing group (DOT) Marine pollutant : UN2788

- : Organotin compounds, liquid, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : Yes (IMDG only)



- : 203
- : 241

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DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
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	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2788
Proper Shipping Name (IMDG)	: ORGANOTIN COMPOUND, LIQUID, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2788
Proper Shipping Name (IATA)	: Organotin compound, 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:

2-Methoxy-4-(tributylstannyl)-1,3-thiazole	CAS No 927391-09-1	100%

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

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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. 3 (Oral)		Acute toxicity (oral) Category 3	
	Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4	
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A	
	Skin Irrit. 2		Skin corrosion/irritation Category 2	
	STOT RE 1		Specific target organ toxicity (repeated exposure) Category 1	
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3	
	H301		Toxic if swallowed	
	H312		Harmful in contact with skin	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
	H335		May cause respiratory irritation	
	H372		Causes damage to organs through prolonged or repeated exposure	
gNFPA fire hazard: 1NFPA reactivity: 0		given. : 1 - Must be preheate : 0 - Normally stable, e	residual injury even though prompt medical attention was given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS I	I Rating			
Health	Health : 3 Serious Hazard - Major injury likely un given		Major injury likely unless prompt action is taken and medical treatment is	
Flamm	ability	 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) 		
Physica	 vsical O Minimal Hazard - Materials that are normally stable, even under fire conditions, and v 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.