

Safety Data Sheet 9H501Z9 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	Cubatanaa		
	Substance	hiazala	
	2-Methoxy-5-(tributylstannyl)-1,3-t		
	1025744-42-6		
	9H50-1-Z9		
	C16H31NOSSn	etersener Method E (tribut detersed) 4.2 thissel 2 of a	
		stannane; Methyl 5-(tributylstannyl)-1,3-thiazol-2-yl e	iner
	MFCD09025806		
1.2. Relevant identified uses of the substa		against	
Use of the substance/mixture :	Laboratory chemicals Manufacture of substances Scientific research and developme	ent	
1.3. Details of the supplier of the safety da	ta 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			
1.4. Emergency telephone number			
Emergency number :	(844) 523-4086 (3E Company - Ad	ccount 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mix	ture		
Classification (GHS-US)			
Acute Tox. 4 (Dermal)H312 - Harmful in contactSkin Irrit. 2H315 - Causes skin irritaEye Irrit. 2AH319 - Causes serious eSTOT SE 3H335 - May cause respirSTOT RE 1H372 - Causes damageFull text of H-phrases: see section 16	tion eye irritation	ated 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 with ski H315 - Causes skin irritation H319 - Causes serious eye irritatio H335 - May cause respiratory irrita H372 - Causes damage to organs	n	
	P260 - Do not breathe dust/fume/c P264 - Wash skin thoroughly after P270 - Do not eat, drink or smoke P271 - Use only outdoors or in a v P280 - Wear protective gloves/pro P301+P310 - If swallowed: Immec P302+P352 - If on skin: Wash with P304+P340 - If inhaled: Remove p P305+P351+P338 - If in eyes: Rin lenses, if present and easy to do.	pas/mist/vapors/spray handling when using this product vell-ventilated area tective clothing/eye protection/face protection liately call a poison center/doctor/ plenty of soap and water person to fresh air and keep comfortable for breathing se cautiously with water for several minutes. Remove Continue rinsing	contact
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	P312 - Call a POISON CENTER or doo P314 - Get medical advice/attention if y P321 - Specific treatment (see supplen P330 - Rinse mouth P332+P313 - If skin irritation occurs: G P337+P313 - If eye irritation persists: G P362+P364 - Take off contaminated cle P403+P233 - Store in a well-ventilated P405 - Store locked up P501 - Dispose of contents/container to	you feel unwell nental first aid instru- et medical advice/at Get medical advice/a othing and wash it b place. Keep contain	ctions on this label) tention ttention efore reuse er tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/informatior	n on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-Methoxy-5-(tributylstannyl)-1,3-thiazole (Main constituent)	(CAS No) 1025744-42-6	<= 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	: In case of accident or if you feel unwell where possible). Move the affected per		
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep or respiration. Get immediate medical adv</li> </ul>	comfortable for breat	
First-aid measures after skin contact	: Wash with plenty of soap and water. G	et immediate medica	al advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with present and easy to do. Continue rinsir	ng. Get immediate m	edical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give an mouth out with water. Get immediate m		
4.2. Most important symptoms and effect	s, both acute and delayed		
Symptoms/injuries	: The most important known symptoms a 2.2) and/or in section 11.	and effects are desc	ribed in the labelling (see section
	attention and special treatment needed	l	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire.	. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the sub	stance or mixture		
Fire hazard	: Thermal decomposition generates: Car oxides.	bon oxides. Nitroge	n oxides. Sulfur oxides. Tin/tin
Explosion hazard	: Risk of explosion if heated under confir containers.	nement. Use water s	pray or fog for cooling exposed
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fight fire	e remotely due to the	e risk of explosion.

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SECTION 6: Accidental release n	
6.1. Personal precautions, protectiv	re 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 aut	thorities if product enters sewers or public waters.
6.3. Methods and material for conta	inment 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	
<b>SECTION 7: Handling and storag</b>	je
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, inc	luding 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

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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 physic	cal 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 of	oxidizing agents.
10.6.	Hazardous decomposition products
Lindor n	armal conditions of storage and use hazardous decomposition products should not be produced. Hazardous decomposition products in case 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.

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

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects

No additional information available

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 informati	, ,

### 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)	<ul> <li>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).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>	
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	
<b>SECTION 15: Regulatory information</b>	1	
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-5-(tributylstannyl)-1,3-thiazole CAS No 1025744-42-6 100%	, 0
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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

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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	
		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	IRating			
Health	-	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given		
Flamma	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	al	: 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 guarance 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.