

1,1-Dioxotetrahydrothiopyran-4-amine Safety Data Sheet 8H6311Z according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/30/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1,1-Dioxotetrahydrothiopyran-4-amine
CAS No	: 210240-20-3
Product code	: 8H63-1-1Z
Formula	: C5H11NO2S
Synonyms	: 4-Amino-1-thiane-1,1-dione; 4-Aminotetrahydro-2H-thiopyran 1,1-dioxide
Other means of identification	: MFCD09540491
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals
	Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	
Acute Tox 4 (Oral) H302 - Harmful if swa	llowed
Skin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSkin Sens. 1H317 - May cause anSTOT SE 3H335 - May cause res	rritation us eye irritation allergic skin reaction
Skin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSkin Sens. 1H317 - May cause anSTOT SE 3H335 - May cause resFull text of H-phrases: see section 16	rritation us eye irritation allergic skin reaction
Skin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSkin Sens. 1H317 - May cause anSTOT SE 3H335 - May cause resFull text of H-phrases: see section 16	rritation us eye irritation allergic skin reaction
Skin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSkin Sens. 1H317 - May cause anSTOT SE 3H335 - May cause resFull text of H-phrases: see section 162.2.Label elements	rritation us eye irritation allergic skin reaction spiratory irritation
Skin Irrit. 2 H315 - Causes skin ir Eye Irrit. 2A H319 - Causes seriou Skin Sens. 1 H317 - May cause an STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	rritation us eye irritation allergic skin reaction spiratory irritation
Skin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSkin Sens. 1H317 - May cause anSTOT SE 3H335 - May cause resFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	rritation us eye irritation allergic skin reaction spiratory irritation

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	P321 - Specific treatment (see sup P330 - Rinse mouth P332+P313 - If skin irritation occur P333+P313 - If skin irritation or ras P337+P313 - If eye irritation persis P362+P364 - Take off contaminate P363 - Wash contaminated clothing P403+P233 - Store in a well-ventila P405 - Store locked up P501 - Dispose of contents/contain	s: Get medical advice/att h occurs: Get medical ad ts: Get medical advice/at d clothing and wash it be g before reuse ated place. Keep containe	ention lvice/attention tention ofore reuse er tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US) Not applicable			
	ion on ingradianta		
SECTION 3: Composition/informati 3.1. Substance	ion on ingredients		
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (CHS US)
1,1-Dioxotetrahydrothiopyran-4-amine (Main constituent)	(CAS No) 210240-20-3	70 <= 100	Classification (GHS-US) Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335
Full text of H-phrases: see section 16		·	<u> </u>
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures	the second second start on the second second		- Second a Martin by Cale and the state of
First-aid measures general	: In case of accident or if you feel un where possible). Move the affected		
First-aid measures after inhalation			
First-aid measures after skin contact	: Wash with plenty of soap and wate		
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.		
First-aid measures after ingestion	: Do NOT induce vomiting. Never giv mouth out with water. Get immedia		
4.2. Most important symptoms and eff			
Symptoms/injuries	: The most important known sympton 2.2) and/or in section 11.	ms and effects are descri	bed in the labelling (see section
•	al attention and special treatment nee	ded	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dio. appropriate for surrounding fire.	xide. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the s		Orthony 11 Mile	
Fire hazard	: Thermal decomposition generates:	Carbon oxides. Nitrogen	oxides. Sulfur oxides.
5.3. Advice for firefighters			
Firefighting instructions Protection during firefighting	 In case of fire: Evacuate area. Wear gas tight chemically protectiv apparatus. For further information r 		
SECTION 6: Accidental release me			
6.1. Personal precautions, protective e General measures	equipment and emergency procedures : Evacuate unnecessary personnel.		tilation. Do not breathe dust.

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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".
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	nment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
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, mist, spray. 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, incl	uding 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/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	d chemical properties
Physical state	: No data available
Color	: No data available
Odor	: No data available
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

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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	: 149.21 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

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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 oxidizing 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

: Oral: Harmful if swallowed.

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				
12.1.	Toxicity			
No additi	onal information available			
12.2.	Persistence and degradability			
No additional information available				
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	ioaccumulative potential	
No addition		
	al information available	
12.4. M	lobility in soil	
No addition	al information available	
42.5 0	ther adverse effects	
12.5. 0	ther adverse effects	
No addition	al information available	

13.1. Waste treatment methods

Waste treatment methods

Waste disposal recommendations Additional information : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

ation : Recycle the material as far as possible.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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:

1,1-Dioxotetrahydrothiopyran-4-amine	CAS No 210240-20-3	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

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Full tex	t of H-phrases:	
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	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
	H302	Harmful if swallowed
	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA	nealth hazard ire hazard reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 0 - Materials that will not burn. 0 - Normally stable, even under fire exposure conditions,
	II Rating	and are not reactive with water.
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flamm	ability	: 0 Minimal Hazard - Materials that will not burn
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 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.