

Safety Data Sheet 6H29134 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/04/2017 Version: 1.0

SECTION 1: Identification	
.1. Identification	
Product form	: Substance
ubstance name	: Diethyl 3,4-dihydroxythiophene-2,5-dicarboxylate
AS No	: 1822-66-8
roduct code	: 6H29-1-34
ormula	: C10H12O6S
ynonyms	: 3,4-Dihydroxythiophene-2,5-dicarboxylic acid diethyl ester
ther means of identification	: MFCD03094035
	substance or mixture and uses advised against
se of the substance/mixture	: Laboratory chemicals
	Manufacture of substances Scientific research and development
3. Details of the supplier of the sa	ifety data sheet
ynQuest Laboratories, Inc.	
.O. Box 309	
lachua, FL 32615 - United States of Ameri (386) 462-0788 - F (386) 462-7097	.ca
(300) 402-0708 - F (300) 402-7097 fo@synquestlabs.com - www.synquestlab	<u>is.com</u>
4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
 Label elements 	
HS-US labeling	
lazard pictograms (GHS-US)	
Signal word (GHS-US)	GHS07 : Warning
lazard statements (GHS-US)	: H315 - Causes skin irritation
	H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling
	 P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
	 P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention

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

2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information o	n ingree	dients		
3.1. Substance				
Substance type :	Mono-con	stituent		
Name	Pro	oduct identifier	%	Classification (GHS-US)
Diethyl 3,4-dihydroxythiophene-2,5-dicarboxylate (Main constituent)	(CA	S No) 1822-66-8	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
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				
		accident or if you feel unwell, seek r sible). Move the affected personnel		
		erson to fresh air and keep comforta . Get medical advice/attention.	able for breathing	g. If not breathing, give artificial
First-aid measures after skin contact :	Wash with	plenty of soap and water. Get medi	cal advice/atten	tion.
	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.			
	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.			
4.2. Most important symptoms and effects, I	both acute	e and delayed		
		mportant known symptoms and effe r in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical atte	ention and	d special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.				
5.2. Special hazards arising from the substa	nce or mi	xture		
Fire hazard :	Thermal d	ecomposition generates: Carbon ox	ides. Sulfur oxid	les.
5.3. Advice for firefighters				
Firefighting instructions : In case of fire: Evacuate area.				
	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".			
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.			ation. Do not breathe dust.	
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".			ment. For further information	
6.2. Environmental precautions				

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

Safety Data Sheet

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

6.3.	6.3. Methods and material for containment and cleaning up			
For cor	tainment	: Stop leak if safe to do so.		
Method	ls for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.		
Other in	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
6.4.	Reference to other sections			
No additional information available				
SECT	ION 7: Handling and storage			
7.1.	Precautions for safe handling			
Precau	tions 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.		
Hygien	e 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
Technica	al 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 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	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 132 - 135 °C
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	: 260.26 g/mol

Safety Data Sheet

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

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 addit	tional 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	tional information available
10.4.	Conditions to avoid
Keep av	vay from heat, sparks and flame.
10.5.	Incompatible materials
Strong of	oxidizing agents.
10.6.	Hazardous decomposition products
	ormal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of Section 5.
SECT	ION 11: Toxicological information
11.1.	Information on toxicological effects
Acute to	exicity : Not classified

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.
Specific target organ toxicity (repeated exposure)	: Not classified

SECTION 12: Ecological information 12.1. **Toxicity** No additional information available 12.2. Persistence and degradability No additional information available 12.3. **Bioaccumulative potential** No additional information available 12.4. Mobility in soil No additional information available 12.5. Other adverse effects No additional information available

01/04/2017

Aspiration hazard

: Not classified

Safety Data Sheet

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

SECTION 13: Disposal considerat	ions	
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	on	
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 informat	ion	
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:		

Diethyl 3,4-dihydroxythiophene-2,5-dicarboxylate CAS No 1822-66-8 100%				
		Diethyl 3,4-dihydroxythiophene-2,5-dicarboxylate	CAS NO 1822-66-8	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

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:

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
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Safety Data Sheet

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

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
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.