

Safety Data Sheet 63601E1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/25/2016 Version: 1.0

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SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: [(E)-2-(Ethoxycarbonyl)vinyl]boronic acid, pinacol ester	
CAS No	: 1009307-13-4	
Product code	: 6360-1-E1	
Formula	: C11H19BO4	
Synonyms	: Ethyl (2E)-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)prop-2-enoate; Ethyl (E)-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)acrylate; [(E)-2-(Ethoxycarbonyl)ethenyl]boronic acid, pinacol ester	
Other means of identification	: MFCD09027313	
1.2. Relevant identified uses of the substa	ance 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 safety da	ata 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 - Account 10069)	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mix	xture	
Classification (GHS-US)		
Acute Tox. 4 (Oral)H302 - Harmful if swallowedAcute Tox. 4 (Inhalation)H332 - Harmful if inhaledSkin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritationSTOT SE 3H335 - May cause respiratory irritation		
Full text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	: GHS07	
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	<ul> <li>H302+H332 - Harmful if swallowed or if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>	
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact</li> </ul>	

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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) 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/information	on ingredients		
3.1. Substance			
Substance type :	Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
[(E)-2-(Ethoxycarbonyl)vinyl]boronic acid, pinacol ester (Main constituent)	(CAS No) 1009307-13-4	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 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			
First-aid measures general :	In case of accident or if you feel unwell, seek where possible). Move the affected personnel		
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.			
First-aid measures after skin contact	Wash with plenty of soap and water. Get imme	ediate medical a	dvice/attention.
First-aid measures after eye contact :	Immediately flush eyes thoroughly with water present and easy to do. Continue rinsing. Get		-
First-aid measures after ingestion :	Do NOT induce vomiting. Never give anything mouth out with water. Get immediate medical		
4.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/injuries :	The most important known symptoms and efference 2.2) and/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical at	ttention and special treatment needed		
Freat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media :	Alcohol resistant foam. Carbon dioxide. Dry po appropriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the subst	tance or mixture		
	e hazard : Thermal decomposition generates: Borane/boron oxides. Carbon oxides.		
Explosion hazard :	Risk of explosion if heated under confinement containers.	. Use water spra	y or fog for cooling exposed
5.3. Advice for firefighters			
	<ul> <li>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</li> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>		

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SECTION 6: Accidental release measu	ires	
6.1. Personal precautions, protective equi	pment 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 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 :	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. Keep contents under inert gas.	
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/persor		

### 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			
0.1 Information on basic physica	0.1 Information on basic physical and chemical properties		

9.1. Information on b	Information on basic physical and chemical properties		
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
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5 5 ,	<b>3</b> .
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	: 226.08 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	ON 10: Stability and reactivity	
10.1.	Reactivity	
No addi	ional 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 acids. 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

Acute toxicity	: Oral: Harmful if swallowed. Inhalation: Harmful if inhaled.
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	: Not classified
exposure)	

Aspiration hazard : Not classified

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

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 informati	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 information	
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**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:

 [(E)-2-(Ethoxycarbonyl)vinyl]boronic acid, pinacol ester
 CAS No 1009307-13-4

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

100%

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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 (Inhalation)	Acute toxicity (inhalation) Category 4
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
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
NFPA fire hazard NFPA reactivity	<ul> <li>residual injury even though prompt medical attention was given.</li> <li>1 - Must be preheated before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
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.