

Safety Data Sheet 8H601Z9

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/18/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: (4R,5R)-2-(But-1-yl)-N,N,N',N'-tetramethyl-1,3,2-dioxaborolane-4,5-dicarboxamide
CAS No	: 161344-85-0
Product code	: 8H60-1-Z9
Formula	: C12H23BN2O4
Synonyms	: (But-1-yl)boronic acid; N,N,N',N'-tetramethyl-L-tartaric acid diamide ester
Other means of identification	: MFCD04113606
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against
	: 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 - www.synquestlabs.com	
1.4. Emergency telephone number	
	: (844) 523-4086 (3E Company - Account 10069)
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SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	xture
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation	
Eye Irrit. 2A H319 - Causes serious eye irritation	on
STOT SE 3 H335 - May cause respiratory irrita	ation
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	•
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	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation
	H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Dressutionery statements (CLIS LIS)	
Precautionary statements (GHS-US)	: P261 - Avoid breathing fumes, mist, spray, vapors 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 P362+P364 - Take off contaminated clothing and wash it before reuse
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed
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	P405 - Store P501 - Dispo	locked up se of contents/container to a	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 on ingredie	ents		
3.1. Substance				
Substance type	: Mono-constit	uent		
Name	Produ	ıct identifier	%	Classification (GHS-US)
(4R,5R)-2-(But-1-yl)-N,N,N',N'-tetramethyl-1,3,2-		b) 161344-85-0	<= 100	Skin Irrit. 2, H315
dioxaborolane-4,5-dicarboxamide (Main constituent)				Eye Irrit. 2A, H319
Full text of H-phrases: see section 16				STOT SE 3, H335
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	: In case of co	pident or if you fool upwall	seek medical advice	immediately (show the label
ווסר מוע ווובמסערבס עבוובומו		le). Move the affected perso		5 (
First-aid measures after inhalation		on to fresh air and keep con et medical advice/attention		ng. If not breathing, give artificial
First-aid measures after skin contact	: Wash with ple	enty of soap and water. Get	medical advice/atte	ntion.
First-aid measures after eye contact				minutes. Remove contact lenses, if
	present and e	easy to do. Continue rinsing	. Get medical advice	e/attention.
First-aid measures after ingestion	: 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 effe	cts, both acute a	nd delayed		
Symptoms/injuries		: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
4.3. Indication of any immediate medica	I attention and s	pecial treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
0 0		ant foam Carbon diovido	Dry powder Water o	nrav. Lise extinguishing modia
Suitable extinguishing media		or surrounding fire.	by powder. water s	pray. Use extinguishing media
5.2. Special hazards arising from the su		5		
Fire hazard			ne/horon oxides. Ca	rbon oxides. Nitrogen oxides.
Explosion hazard				ray or fog for cooling exposed
	containers.			
5.3. Advice for firefighters				
-	: In case of fire	: Evacuate area. Fight fire i	remotelv due to the	risk of explosion.
-irefighting instructions			-	with self contained breathing
Firefighting instructions Protection during firefighting	3~~			ire controls/personal protection".
	apparatus. Fo			
Protection during firefighting				
Protection during firefighting SECTION 6: Accidental release mea	sures		·	
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ex	SURES	ergency procedures		
Protection during firefighting SECTION 6: Accidental release mea	SURES juipment and em : Evacuate unr	ergency procedures necessary personnel. Ensur	e adequate air venti	lation. Do not breathe gas, fumes,
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ex	SURES	ergency procedures necessary personnel. Ensur	e adequate air venti	lation. Do not breathe gas, fumes,
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ex	SURES juipment and em : Evacuate unr	ergency procedures necessary personnel. Ensur	e adequate air venti	lation. Do not breathe gas, fumes,

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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 cont	tainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.	
Methods	s 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 in	formation	: 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 storag	e	
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	Conditions for safe storage, including any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.	
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

hysical and chemical properties
: Liquid
: No data available
: 178 - 179 °C
: No data available

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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
Specific gravity / density	: 1.072 g/ml (@ 25 °C)
Molecular mass	: 270.13 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
0.2 Other information	

9.2. Other information

Refractive index

: 1.478 (@ 20 °C)

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 **Conditions to avoid** 10.4. Keep away from heat, sparks and flame. Moisture. 10.5. Incompatible materials Strong oxidizing agents. Hazardous decomposition products 10.6. 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 : Not classified : Causes skin irritation. Skin corrosion/irritation

exposure)

Serious eye damage/irritation

Germ cell mutagenicity

Reproductive toxicity

Aspiration hazard

Carcinogenicity

Respiratory or skin sensitization

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated

: Not classified

: Not classified

Not classified

: Not classified

: Not classified

: Not classified

: Causes serious eye irritation.

: May cause respiratory irritation.

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

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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:

(4R,5R)-2-(But-1-yl)-N,N,N',N'-tetramethyl-1,3,2-dioxaborolane-	CAS No 161344-85-0	100%
4,5-dicarboxamide		

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

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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
STC	DT SE 3		Specific target organ toxicity (single exposure) Category 3
H31	5		Causes skin irritation
H31	9		Causes serious eye irritation
H33	5		May cause respiratory irritation
NFPA fire ha	NFPA fire hazard : 0 - Materials that will not b		nder fire exposure conditions,
HMIS III Rati	ng		
Health : 2 Moderate Hazard - Ten		: 2 Moderate Hazard - Tem	porary or minor injury may occur
Flammability	mmability : 0 Minimal Hazard - Materials that will not burn		als that will not burn
Physical			als that are normally stable, even under fire conditions, and will NOT ze, 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.