

Safety Data Sheet 41561S5 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/06/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: (S)-(+)-2-Amino-3-methyl-1-butanol
CAS No	: 2026-48-4
Product code	: 4156-1-S5
Formula	: C5H13NO
Synonyms	: L-Valinol
Other means of identification	: MFCD00064296
1.2. Relevant identified uses of the	substance 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 sa	ifety data sheet
SynQuest Laboratories, Inc.	
P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlab	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
2.1. Classification of the substance	or mixturo
Classification (GHS-US)         Skin Irrit. 2       H315 - Causes skin irritation         Eye Irrit. 2A       H319 - Causes serious eye         STOT SE 3       H335 - May cause respirato	n irritation
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	n irritation
Classification (GHS-US)Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respiratoFull text of H-phrases: see section 162.2.Label elements	n irritation
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	n irritation
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Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	n irritation my irritation : ir GHS07 GHS07 : Warning
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritatior Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	n irritation ory irritation
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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informatio	n on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
(S)-(+)-2-Amino-3-methyl-1-butanol (Main constituent)		(CAS No) 2026-48-4	<= 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				
First-aid measures general		e of accident or if you feel unwell, seek repossible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comforta ation. 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.
First-aid measures after eye contact		diately flush eyes thoroughly with water t nt and easy to do. Continue rinsing. Get		
First-aid measures after ingestion		OT induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effect	ts, both a	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical	attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the sul	ostance o	or mixture		
Fire hazard	: Thern	nal decomposition generates: Carbon ox	ides. Nitrogen o	xides.
5.3. Advice for firefighters				
Firefighting instructions	: In cas	e of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective clothing i atus. For further information refer to sect		
SECTION 6: Accidental release meas	sures			
6.1. Personal precautions, protective eq		and emergency procedures		
General measures	: Evacu	uate unnecessary personnel. Ensure ade ne gas, fumes, vapor or spray.	equate air ventila	ation. Do not breathe dust. Do not
6.1.1. For non-emergency personnel				
Emergency procedures	: Only o	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.
6.1.2. For emergency responders				
Protective equipment		at attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information
6.2. Environmental precautions				

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

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6.3.	Methods and material for containme	ent and cleaning up	
For containment		: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.	
Methods for cleaning up		Minimize generation of dust. 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	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4.	Reference to other sections		
No add	itional 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, fumes, mist, spray, vapors. 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	ng any incompatibilities	
Technie	cal measures	: Comply with applicable regulations.	
Storage conditions :		: Keep container closed when not in use.	
Incompatible materials :		Refer to Section 10 on Incompatible Materials.	
•		2 - 8 °C Use explosion proof refrigerator	
Storage	earea	: Store in dry, well-ventilated area. Keep contents under inert gas.	

### 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**

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Vapor pressure	: No data available		
Oxidizing properties	: No data available		
Explosive properties	: No data available		
Explosion limits	: No data available		
Flammability (solid, gas)	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flash point	: 91 °C		
Boiling point	: 81 (≥ 81) °C (@ 8 mm Hg)		
Freezing point	: No data available		
Melting point	: 32 - 33 °C		
рН	: No data available		
Odor threshold	: No data available		
Odor	: No data available		
Color	: No data available		
Appearance	: Low melting solid.		
Physical state	: Solid		
9.1. Information on basic physical and	d chemical properties		

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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 103.1628 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 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 o fire, see Section 5.

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity	: 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
Aspiration hazard	: Not classified

SECT	SECTION 12: Ecological information			
12.1.	Toxicity			
No add	litional information available			
12.2.	Persistence and degradability			
No add	litional information available			
12.3.	Bioaccumulative potential			
No add	litional information available			

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#### 12.4. Mobility in soil

No additional 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 v	with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance wit	th licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport informa	tion	
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 inform	ation	
15.1. US Federal regulations		
Č.	or evaluated from listing on the United States Environment	ntel Protection Agency Toxic
Substances Control Act (TSCA) inventory	or excluded from listing, on the United States Environmer except for:	
(S)-(+)-2-Amino-3-methyl-1-butanol	CAS No 2026-48-4	100%

and 40 CFR Part 372.

### 15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

### National regulations

(S)-(+)-2-Amino-3-methyl-1-butanol (2026-48-4) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 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 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
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 : 1 - Must be preheated before ignition can occur.	
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	<ul> <li>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)</li> </ul>
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.