

Safety Data Sheet 4157104 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 06/23/2016

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: L-tert-Leucine
CAS No	: 20859-02-3
Product code	: 4157-1-04
Formula	: C6H13NO2
Synonyms	: L-tert-Leucine; (2S)-2-Amino-3,3-dimethylbutanoic acid
Other means of identification	: MFCD00064218
	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	afety 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@synquestlabs.com - www.synquestlab	ica
1.4. Emergency telephone number Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Skin Irrit. 2 H315 - Causes skin irritation	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	irritation
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	irritation
Skin Irrit. 2 H315 - Causes skin irritation 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	irritation
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Skin Irrit. 2 H315 - Causes skin irritation 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)	irritation bry irritation : : : : : : : : : : : : : : : : : : :
Skin Irrit. 2 H315 - Causes skin irritation 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)	 irritation by irritation : irritation : irritation : irritation : GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

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	on on ingredients			
.1. Substance				
Substance type	: Mono-constituent			
Name L-tert-Leucine	(CAS No) 20859-02-3	% <= 100	Classification (GHS-US) Skin Irrit. 2, H315	
(Main constituent)			Eye Irrit. 2A, H319 STOT SE 3, H335	
Full text of H-phrases: see section 16	·	· ·	·	
3.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general	: In case of accident or if you feel unwell, where possible). Move the affected pers			
First-aid measures after inhalation	: Remove person to fresh air and keep co respiration. Get medical advice/attention		ning. If not breathing, give artificial	
First-aid measures after skin contact	: Wash with plenty of soap and water. Ge		ention.	
First-aid measures after eye contact	 Wash with plenty of soap and water. Get medical advice/attention. 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. 			
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.				
First-aid measures after ingestion	: Do NOT induce vomiting. Never give an	/thing by mouth to a		
-	: Do NOT induce vomiting. Never give an mouth out with water. Get medical advice	/thing by mouth to a		
4.2. Most important symptoms and effe	: Do NOT induce vomiting. Never give an mouth out with water. Get medical advice	ything by mouth to a e/attention.	an unconscious person. Rinse	
1.2. Most important symptoms and effe	 Do NOT induce vomiting. Never give an mouth out with water. Get medical advice both acute and delayed The most important known symptoms an 	ything by mouth to a e/attention.	an unconscious person. Rinse	
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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. Methods and material for containment 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.	
	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 a	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 a	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: > 300 °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	: 131.17 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

SECTION 10: Stability and re	activity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handlin	ng and storage conditions.
10.3. Possibility of hazardous re	actions
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flam	e.
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition	products
Under normal conditions of storage an fire, see Section 5.	d use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological in	nformation
11.1. Information on toxicologic	al 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

Respiratory of skin schsnization	. Not classifica
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

repreductive testienty	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified

Aspiration hazard

: Not classified

SECT	ION 12: Ecological information				
12.1.	Toxicity				
No addi	tional information available				
12.2.	Persistence and degradability				
No addi	No additional information available				
12.3.	Bioaccumulative potential				
No addi	No additional information available				
12.4.	Mobility in soil				
No addi	No additional information available				
12.5.	Other adverse effects				
No additional information available					
12/08/20	16	EN (English US)	SDS ID: 4157104	4/6	

Safety Data Sheet

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

SECTION 13: Disposal consideration	bns	
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	n	
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 informatic	on .	
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:		

	1000/	
L-tert-Leucine CAS No 2085	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

L-tert-Leucine (20859-02-3)

Listed on ELINCS (European List of Notified Chemical Substances)

National regulations

L-tert-Leucine (20859-02-3)

Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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.