

L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 29/06/2015 Revision date: 28/07/2022 Supersedes: 14/01/2016 Version: 2.0 DLM-488-MPT

	tance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Substance name	: L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED		
EC-No.	: 200-773-6 (Unlabeled)		
	: 72-18-4 (Unlabeled)		
Product code	: DLM-488-MPT		
Formula	: (*CH3)2*CD*CD(*NH2)*COOH		
	: (S)-alpha-Aminoisovaleric acid. L-2-Amino-3-methylbutanoic acid.		
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Industrial/Professional use spec	: For professional use only		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety de Cambridge Isotope Laboratories, Inc. 50 Frontage Road			
Andover, MA 01810 USA			
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com			
Emergency telephone number			
Emergency numbers:			
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)			
SECTION 2: Hazards identification			
2.1. Classification of the substance or mix	xture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]			
Not classified			
Classification according to Directive 67/548/EE Not classified	C [DSD] or 1999/45/EC [DPD]		
GHS-US classification			
Not classified			
Adverse physicochemical, human health and a	anvironmental effects		
Adverse physicochemical, human health and environmental effects No additional information available			
2.2. Label elements			
Labeling according to Regulation (EC) No. 1272/2008 [CLP]			
No labeling applicable			
GHS-US labeling			

No labeling applicable

2.3.	Other	hazards

No additional information available

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SECTION 3: Composition/Information on	ingredients		
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED	(CAS-No.) 72-18-4 (Unlabeled) (EC-No.) 200-773-6 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED	(CAS-No.) 72-18-4 (Unlabeled) (EC-No.) 200-773-6 (Unlabeled)	100	Not classified

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED (Main constituent)	(CAS-No.) 72-18-4 (Unlabeled)	100	Not classified

Full text of H-phrases: see section 16

3.2. **Mixtures**

Not applicable SECTION 4: First aid measures **Description of first aid measures** 4.1. First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet. If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a First-aid measures after inhalation physician. First-aid measures after skin contact Choose body protection according to the amount and concentration of the dangerous substance at the work place. First-aid measures after eye contact Flush eyes with water as a precaution. First-aid measures after ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2. Most important symptoms and effects, both acute and delayed : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/effects after inhalation Symptoms/effects after skin contact : May be harmful if absorbed through skin. May cause skin irritation. Symptoms/effects after eye contact : Contact may cause eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed 4.3. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures **Extinguishing media** 5.1. Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Special hazards arising from the substance or mixture 5.2. No additional information available 5.3 Advice for firefighters Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 6: Accidental release measures Personal precautions, protective equipment and emergency procedures 6.1. 6.1.1. For non-emergency personnel Emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

6.1.2. For emergency responders

No additional information available

6.2.	Environmental precautions		
Prevent entry to sewers and public waters.			
6.3.	6.3. Methods and material for containment and cleaning up		
For con	tainment	: Sweep up and shovel. Keep in suitable, closed containers for disposal.	

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6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Hygiene measures	 Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	· Olaves Pertective elethics, Protective secondary Colf contained breathing and it
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous
Despiratory protection	substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Solid
Molecular mass	: 125.12 g/mol (Labeled)
Color	: White
Odor Odor	: Ordourless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 295 - 300 °C (563 - 572 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: 5.74g/100g water
Log Pow	: -2.259 at 20 °C (68 °F) : No data available
Log Kow	. Ivu uala avaliable

: No data available : No data available

: No data available

: No data available

: No data available

EN (English US)

Viscosity, kinematic

Viscosity, dynamic Explosive properties

Oxidizing properties

Explosion limits

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9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Stable if stored under recommended conditions.			
10.3. Possibility of hazardous reactions			
No additional information available			
10.4. Conditions to avoid			
Not available.			
10.5. Incompatible materials			
Strong oxidizing agents.			
10.6. Hazardous decomposition products			
Formed under fire conditions: Carbon oxides, nitro	gen oxides.		
SECTION 11: Toxicological information	on		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
L-VALINE (D8, 98%) MICROBIOLOGICAL/PYR	OGEN TESTED (72-18-4 (Unlabeled))		
LD50 oral rat	> 2000 mg/kg Rat female - (OECD Test Guideline 423)		
LD50 dermal rat	5390 mg/kg		
LC50 inhalation rat (mg/l)	> 5260 mg/m ³ (OECD Test Guideline 403)		
ATE CLP (dermal)	5390.000 mg/kg body weight		
Skin corrosion/irritation	: Not classified		
	Skin - rabbit Result: No skin irritation - 4 h		
Serious eye damage/irritation	: Not classified		
	Eyes - rabbit - No eye irritation (OCED Test Guideline 405)		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity – single exposure	: Not classified		
Specific target organ toxicity – repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.		
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.		
Symptoms/effects after eye contact	: Contact may cause eye irritation.		
Symptoms/effects after ingestion	: May be harmful if swallowed.		

SECTION 12: Ecological information		
12.1. Toxicity		
L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED (72-18-4 (Unlabeled))		
LC50 fish 1	> 10 g/l Danio rerio (zebra fish) - (OECD Test Guideline 203) 96 h	
EC50 Daphnia 1	> 10 g/l Daphnia magna (Water flea) - (OECD Test Guideline 202) 24 h	
12.2. Persistence and degradability		
L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED (72-18-4 (Unlabeled))		

Persistence and degradability Aerobic - exposure time: 28 d. 12.3. **Bioaccumulative potential** L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED (72-18-4 (Unlabeled)) Log Pow -2.259 at 20 °C (68 °F)

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L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED (72-18-4 (Unlabeled))		
Bioaccumulative potential	Not available.	
12.4. Mobility in soil		
L-VALINE (D8, 98%) MICROBIOLOGICAL/PYF	ROGEN TESTED (72-18-4 (Unlabeled))	
Ecology - soil	Not available.	
12.5. Results of PBT and vPvB assessmen	t	
No additional information available		
12.6. Other adverse effects		
Other adverse effects	: Not available.	
SECTION 13: Disposal consideration	S	
13.1. Waste treatment methods		
Regional legislation (waste)	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact licensed disposal company to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / AD	N	
14.1. UN number		
Not applicable		
14.2. UN proper shipping name		
Not applicable		
14.3. Additional information	No second second to a first second to a secold bit.	
Other information	: No supplementary information available.	
Special transport precautions	: Not dangerous goods.	
Overland transport		
No additional information available		
Transport by sea		
No additional information available		
Air transport		
No additional information available		
14.4. Environmental hazards		
Other information	: No supplementary information available.	
14.5. Special precautions for user		
Special transport precautions	: Not dangerous goods.	
	II of MARPOL 73/78 and the IBC Code	
Not applicable		
SECTION 15: Regulatory information		

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

L-VALINE (D8, 98%) MICROBIOLOGICAL/PYROGEN TESTED (72-18-4 (Unlabeled)) Listed on the Canadian DSL (Domestic Substances List)

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15.2.1. **National regulations**

No additional information available

15.3. US State regulations

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U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance List	

SECTION 16: Other information	
Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product