

# SAFETY DATA SHEET

Revision Date 28-Dec-2021

**Revision Number** 4

# 1. Identification Product Name DL-Valine Cat No. : AC452830000; AC452830010; AC452832500 CAS No 516-06-3 Synonyms DL-2-Amino-3-methylbutyric acid; Val Recommended Use Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use. Details of the supplier of the safety data sheet Company Company Acute Oragoins

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

# **Classification**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %				
DL-Valine	516-06-3	>95				
	4. First-aid measure	es				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Ger medical attention.					
Skin Contact	Wash off immediately with plenty of wate immediately if symptoms occur.	ter for at least 15 minutes. Get medical attention				
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.					
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.					
Most important symptoms and effects	None reasonably foreseeable.					
Notes to Physician	Treat symptomatically					
	5. Fire-fighting measu	sures				
Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry o	v chemical, alcohol-resistant foam.				

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available

# **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

# **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). **Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 0	Health Flammability 0 0		Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Ensure adequate ventilatio formation.	n. Use personal protective equip	pment as required. Avoid dust
Environmental Precautions	Should not be released into Information.	o the environment. See Section	12 for additional Ecological

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage					
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.					
Storage.	. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.					
8. E	Exposure controls / personal protection					
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.					
Engineering Measures	Ensure adequate ventilation, especially in confined areas.					
Personal Protective Equipment						
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.					
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.					
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.					
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.					
	9. Physical and chemical properties					
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7. ГП	ysical and chemical properties
Physical State	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	6.1 50 g/l water
Melting Point/Range	283.5 - 285 °C / 542.3 - 545 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	1.310
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 230°C
Viscosity	Not applicable
Molecular Formula	C5 H11 N O2
Molecular Weight	117.15

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability         Stable under normal conditions.				
Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.				
Incompatible Materials Strong oxidizing agents				
Hazardous Decomposition Product	<b>s</b> Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )			
Hazardous Polymerization Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.			
11. Toxicological information				

# Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as y	No acute toxicity information is available for this product No information available well as chronic effects from short and long-term exposure
Irritation	No information available
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
DL-Valine	516-06-3	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information available						
Reproductive Effect	ts	No information ava	ailable.					
Developmental Effe	cts	No information ava	No information available.					
Teratogenicity		No information ava	ailable.					
STOT - single exposision STOT - repeated ex		None known None known						
Aspiration hazard		No information available						
Symptoms / effects delayed	oms / effects,both acute and No information available							
Endocrine Disruptor Information No information available								
Other Adverse Effe	cts	The toxicological p	properties have not	been fully investig	gated.			
		12. Ecol	ogical infor	mation				
Ecotoxicity Do not empty into dra	ains							

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information			
DOT	Not regulated		
<u>TDG</u>	Not regulated		
DOT _ <u>TDG</u> IATA_	Not regulated		
IMDG/IMO	Not regulated		
	15. Regulatory information		

# United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
DL-Valine	516-06-3	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
DL-Valine	516-06-3	Х	-	208-220-0	Х	Х	Х	Х	Х	2014-3-5934

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

# U.S. Federal Regulations

SARA 313	Not applicable		
SARA 311/312 Hazard Categories	See section 2 for more information		
CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable		
CERCLA	Not applicable		
California Proposition 65	This product does not contain any Proposition 65 chemicals.		
U.S. State Right-to-Know Regulations	Not applicable		

# **U.S. Department of Transportation**

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N		
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.		

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

# Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
DL-Valine	516-06-3	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
DL-Valine	516-06-3	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Revision Date Print Date Revision Summary	28-Dec-2021 28-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**