

# SAFETY DATA SHEET

Creation Date 18-Jan-2006 Revision Date 19-Dec-2025 Revision Number 6

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

1. Identification

Product Name L-Carnosine

Cat No.: AC208170000; AC208170010; AC208170050; AC208170250;

AC208171000

CAS No 305-84-0

Synonyms N-beta-Alanyl-L-histidine

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

Company

Fisher Scientific Company Acros Organics
One Reagent Lane One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **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 according to [US] OSHA (29 CFR 1910.1200, 2024)

This product is not considered hazardous by the US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200).

### Label Elements

None required

#### Hazards not otherwise classified (HNOC)

None identified

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

## 3. Composition/information on Ingredients

Component	CAS No	Weight %
L-Histidine, Nbetaalanyl-	305-84-0	> 95

### 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention.

**Inhalation** Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial

respiration. Get medical attention.

**Ingestion** Clean mouth with water. Get medical attention.

Most important symptoms and

effects

No information available.

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

Not applicable

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge 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 (CO2).

## **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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u>

HealthFlammabilityInstabilityPhysical hazards010N/A

### 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

**Environmental Precautions** See Section 12 for additional Ecological Information.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the

**p** environment.

7. Handling and Storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then

seek immediate medical assistance.

**Storage.** Protect from light. Keep container tightly closed in a dry and well-ventilated place. To

maintain product quality: Keep refrigerated. Incompatible Materials. Strong oxidizing

agents.

8. 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** None under normal use conditions.

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

Remarks

Solid

Solid

Method

Method - No information available

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection**No protective equipment is needed under normal use conditions.

**Recommended Filter type:** Particle filter.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

**Appearance** 

Physical State Powder Solid
Color White
Odor Odorless

Odor Threshold No information available

<u>Property</u> <u>Values</u>

Melting Point/Range253 °C / 487.4 °FSoftening PointNo data availableBoiling Point/RangeNo information availableFlash PointNo information available

Flammability (liquid) Not applicable

Flammability (solid,gas) No information available

Explosion Limits No data available

Autoignition Temperature Not applicable No data available

**pH** No information available

Viscosity
Not applicable
Water Solubility
No information available

Water Solubility No information available Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow L-Histidine, N-.beta.-alanyl- -3.45

Vapor Pressure

Density / Specific Gravity

Bulk Density

No data available
No data available
No data available

Vapor Density Not applicable Solid

Particle characteristics No data available

Other Information

Molecular Formula C9 H14 N4 O3

Molecular Weight 226.23

Evaporation Rate Not applicable - Solid

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** No information available.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

**Hazardous Polymerization**No information available.

Hazardous Reactions None under normal processing.

### 11. Toxicological information

Information on expected route of exposure

**Inhalation** Avoid breathing dust or spray mist.

**Ingestion** No known effect based on information supplied.

**Eyes** Not an expected route of exposure.

**Skin** No known effect based on information supplied.

Toxicology data for the components

Toxicologically Synergistic No information available

**Products** 

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity;

Revision Date 19-Dec-2025 L-Carnosine

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
L-Histidine,	305-84-0	Not listed				
Nbetaalanyl-						

(g) reproductive toxicity;

No data available

(h) STOT-single exposure;

No data available

(i) STOT-repeated exposure;

No data available

**Target Organs** 

No information available.

(j) aspiration hazard;

Not applicable

Solid

**Other Adverse Effects** 

The toxicological properties have not been fully investigated.

Symptoms / effects,both acute and No information available.

delayed

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Endocrine Disrupting Properties** 

This product does not contain any known or suspected endocrine disruptors.

## 12. Ecological information

**Ecotoxicity** 

Do not empty into drains. .

Persistence and Degradability

No information available

**Bioaccumulation/ Accumulation** 

No information available.

No information available. Mobility

Component	log Pow
L-Histidine, Nbetaalanyl-	-3.45

## 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			
DOT TDG IATA	Not regulated			
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
L-Histidine, Nbetaalanyl-	305-84-0	X	ACTIVE	-

### Legend:

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

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

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
L-Histidine, Nbetaalanyl-	305-84-0	-	Х	206-169-9	Х	Χ	Х	-	Χ	

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

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Not applicable

Health Administration

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Not applicable

Regulations

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

**U.S. Department of Homeland**This product does not contain any DHS chemicals.

### Security

### Other International Regulations

Mexico - Grade No information available

### Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	3	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
L-Histidine, Nbetaalanyl-	305-84-0	-	-	-

### 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)
L-Histidine, Nbetaalanyl-	305-84-0	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - (2012/18/EC) -		Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		<b>Qualifying Quantities</b>	<b>Qualifying Quantities</b>	• •	, ,
		for Major Accident   for Safety Report			
		Notification	Requirements		
L-Histidine, Nbetaalanyl-	305-84-0	Not applicable	Not applicable	Not applicable	Not applicable

16	Other	Information
10.	Othici	

Prepared By Product stewardship (Regulatory Affairs)

Thermo Fisher Scientific

email - begel.sdsdesk@thermofisher.com

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Revision Summary Updated to the U.S. Department of Labor's Occupational Safety and Health Administration

(OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200,

2024), May 20, 2024, effective July 19, 2024.

### 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**