

Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 06/12/2011 Revision date 22/01/2018 H0710

Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Trade name	: L-Histidine
EC-No.	: 200-745-3
CAS-No.	: 71-00-1
REACH registration No	: 01-2120750286-53-0000
Product code	: H0710
Formula	: C6H9N3O2
Synonyms	: (S)-2-Amino-3-(4-imidazolyl)propionic acid L-3-Imidazol-4-yl-alanine.
Product group	: Raw material

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only. Duchefa Biochemie B.V. products are intended
	only for "in vitro laboratory" research purposes.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem - The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

1.4. Emergency telephone number

Emergency number

: Supplier contact information: +31(0)23-5319093 (M-F 09:00-17:00)

+31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world directory of poison centres	http://apps.who.int/poisoncentres/	Consult website for a local poison centre

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	: L-Histidine
CAS-No.	: 71-00-1
EC-No.	: 200-745-3

Name	Product identifier	%
L-Histidine	(CAS-No.) 71-00-1	> 99
	(EC-No.) 200-745-3	

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

eek medical attention if ill effect develops.
love to fresh air.
Vash skin with mild soap and water.
linse with water.
linse mouth out with water.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Eirofighting magazuraa

SECTION 5: Firefighting me	asures
5.1. Extinguishing media	
Suitable extinguishing media	: Alcohol resistant foam.
	Dry chemical powder.
	Carbon dioxide (CO2).
	Water spray.
5.2. Special hazards arising from	the substance or mixture
Hazardous decomposition products in	: Under fire conditions, hazardous fumes will be present
case of fire	- COx
	- NOx.

Safety Data Sheet

according to Regulation (EU) 2015/830

5.3. Advice for firefighters

Protection during firefighting

: Wear proper protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Wear suitable protective clothing.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Dispose in a safe manner in accordance with local/national regulations. Sweep up dry powder and dispose properly.

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 : Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store in dry, well-ventilated area Light and moisturer sensitive

: Store at ambient temperature

Keep container tightly closed and dry.

7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

Eye protection:

Safety glasses (to European standard EN 166 or equivalent)

Skin and body protection:

Wear suitable protective clothing

Safety Data Sheet

according to Regulation (EU) 2015/830

Respiratory protection:

Where excessive dust may result, wear approved mask. Type P1 (EN 143)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Molecular mass Colour	: Solid : Powder. Crystalline powder. : 155,2 g/mol : White.
Odour Odour threshold pH Relative evaporation rate (butylacetate=1)	 Characteristic. No data available 7 - 8,5 (20 g/l water) No data available
Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Solubility	 >= 287 °C No data available Water: 38,4 g/l (20 °C)
Log Pow Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Explosive limits 9.2. Other information Bulk density	 : -3,32 : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

This product is not hazardous.

10.4. Conditions to avoid

- Light (daylight)
- Moisture

Safety Data Sheet

according to Regulation (EU) 2015/830

- Heat.

10.5. Incompatible materials

- Strong oxidizers.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes:

- COx
- NOx.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
L-Histidine (71-00-1)	
LD50 oral rat	> 16000 mg/kg
Skin corrosion/irritation	: Not classified pH: 7 - 8,5 (20 g/l water)
Serious eye damage/irritation	 pii. 7 - 0,3 (20 g/l water) Not classified pH: 7 - 8,5 (20 g/l water)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

L-Histidine (71-00-1)	
Biodegradation	55,6 %

12.3. Bioaccumulative potential

L-Histidine (71-00-1)	
Log Pow	-3,32

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

12.6. Other adverse effects

Additional information

: Prevent entry to sewers and public waters. Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA		
14.1. UN number				
Not regulated	Not regulated	Not regulated		
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated		
Not regulated	Not regulated	Not regulated		
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated		
Not regulated	Not regulated	Not regulated		
14.4. Packing group				
Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated		
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

- L-Histidine is not on the REACH Candidate List
- L-Histidine is not on the REACH Annex XIV List

15.1.2. National regulations

Ensure all national/local regulations are observed.

Safety Data Sheet

according to Regulation (EU) 2015/830

Germany

Reference to AwSV	: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 6704)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
15.2. Chemical safety assessment	

No additional information available

SECTION 16: Other information

Indication of changes:

1.4	Emergency number	Modified	
8.2	Hand protection	Modified	Specified material, thickness, et cetera of gloves
9.1	pH	Modified	

Abbreviations and acronyms:

A suite Toxisity Fatimate		
Acute Toxicity Estimate		
European Agreement concerning the International Carriage of Dangerous Goods by Road		
Bioconcentration factor		
Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
Dangerous Preparations Directive 1999/45/EC		
Dangerous Substances Directive 67/548/EEC		
International Air Transport Association		
International Maritime Dangerous Goods		
Median lethal concentration		
Median lethal dose		
Lowest Observed Adverse Effect Level		
No-Observed Adverse Effect Concentration		
Persistent Bioaccumulative Toxic		
Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
Safety Data Sheet		

Data sources

: ECHA (European Chemicals Agency). Manufacturer.

SDS Biochemicals version 2018

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