

Revision: 1.1

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Section 1. Identification

1.1 Product Identifier 4549

Product Name L-HISTIDINE

CAS Number 71-00-1

REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

Molecular Formula $C_6H_9N_3O_2 = 155.15$

1.2 Relevant identified uses of the substance or mixture & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Not classified as hazardous.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Not classified as hazardous.

Section 3. Composition

3.1 Substances

Not classified as hazardous.

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. Remove contact lenses if present and easy to do, continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin	Remove/Take off immediately all contaminated clothing. Wash off skin thoroughly with water. Seek medical attention if irritation persists.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing stops or shows signs of failing, apply artificial resuscitation. Get immediate medical advice/attention.
Ingestion	If conscious wash out mouth with water. Get immediate medical advice/attention.
Personal protection for first aiders	Wear protective gloves / eye protection.

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media	Water spray, alcohol resistant foam, dry powder or carbon dioxide.
Unsuitable Media	Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards	May evolve toxic fumes if involved in a fire. carbon monoxide, carbon dioxide, and nitrogen oxides.
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5.3 Advice for firefighters

Advice for firefighters	Fire-fighters should wear protective clothing and breathing apparatus.
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Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection	Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing dust. Evacuate area.
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6.2 Environmental precautions

Environmental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
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6.3 Methods and material for containment and cleaning up

Major Spillage	Wet material with water to make it damp. This will prevent dispersal of the dust during disposal. Sweep up and transfer to a suitable container for disposal. Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Ensure adequate ventilation. Avoid creating dust. Take precautionary measures against static discharges. Keep away from sources of ignition - No Smoking.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool place. Keep container dry. Protect from sunlight.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Exposure data source(s) No hazardous components.

8.2 Exposure controls

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory protective equipment. Wear a respiratory protective device with particle filter.

Hand Protection Use nitrile gloves or PVC gauntlets.

Eye Protection No specific hazard through eye contact although the wearing of safety glasses is advised.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance White crystalline powder.

Odour Not available

pH Not applicable

Boiling Point Not available

Melting Point 277 - 285 °C (Decomposes)

Flash Point (DIN 51755)

Upper Flammable Limit 0%

Lower Flammable Limit 0%

Auto Ignition Not applicable

Explosive Properties No.

Oxidising Properties No.

Vapour Pressure Not applicable

Relative Density 1.449 g/ml

Water Solubility 43 g/L

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous reactions No data available.

10.4 Conditions to Avoid Avoid exposure to heat and strong sunlight. Protect from moisture.

10.5 Incompatible Materials Strong oxidising agents.

10.6 Hazardous Decomposition Products carbon monoxide, carbon dioxide, and nitrogen oxides.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Presents no significant health hazard to the eyes.

Skin Presents no significant hazard by skin contact.

LD50 Skin Not available

Ingestion Presents no significant hazard by ingestion.

LD50 Oral >5110 mg/Kg Rat

Inhalation Presents no significant health hazard by inhalation.

LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

Section 12. Ecological

12.1 Toxicity	No specific environmental hazard.
LC50 Algal	> 100mg/Kg Green algae
LC50 Crustacea	> 100mg/Kg Daphnia magna
LC50 Fish	Not available
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT & vPvB assessment	Assessment not required.
12.6 Other adverse effects	None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods	Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations. Keep only in the original container.
Contaminated Packaging	Dispose of in the same way as the unused product.

Section 14. Transport Information

14.1 UN Number	Non-restricted
14.2 Proper Shipping Name	Non-restricted
14.3 Transport classes	
UN classification	None
Subsidiary hazard(s)	None
Transport category	None
ADR Hazard ID	Non-restricted
Tunnel Restriction Code	Non-restricted
14.4 Packing Group	None
14.5 Environment hazards	See section 12.
14.6 Special precautions for user	No special precautions required.
14.7 Transport in bulk	Not transported in bulk.

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for substance/mixture.

Not classified as hazardous under Classification, Labelling & Packaging of Substances & Mixtures Regulations (1272/2008/CE).

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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