

## 1. IDENTIFICATION OF SUBSTANCE AND COMPANY DETAILS

### 1.1 Product Identifier

Product name: 0.5M DL-Histidine monohydrochloride monohydrate  
Product number: MD2-100(250)-222  
EC No.: See section 3  
REACH registration No.: See section 3  
CAS No.: See section 3

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

Identified uses Research and development  
Uses advised against Not for drug, household or uses other than those identified

### 1.3 Details of the supplier of the Safety Datasheet

Supplier Molecular Dimensions Limited  
Address Calibre Scientific UK  
Unit 5A, R-Evolution @  
The Advanced Manufacturing Park  
Selden Way, Rotherham  
S60 5XA  
Telephone: +44 (0)11422 42257  
Email address: enquiries@moleculardimensions.com

### 1.4 Emergency telephone number

Emergency phone number 999

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of substance or mixture

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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1277/2008 [CLP]

Pictogram(s):

*Hazard statement(s):*

See section 2.1.

*Precautionary statement(s):*

No precautionary statements.

### 2.3 Other hazards

No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixtures

Chemical	EC No.	REACH No.	CAS No.	Concentration	P-code(s)	H-code(s)
DL-Histidine monohydrochloride monohydrate	229-266-8	-	123333-71-1	0.5M		

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General notes

Consult a doctor. Show this safety datasheet to the doctor in attendance.

#### Following inhalation

Move to fresh air. If not breathing, give artificial respiration.

#### Following skin contact

Wash off with soap & water.

#### Following eye contact

Flush eyes with water.

#### Following ingestion

Rinse mouth with water.

#### Self-protection for first aider

Always use recommended PPE when treating patient.

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

The most important known effects are detailed in section 2.2 and section 11

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

No data available

## 5. FIRE-FIGHTING METHODS

### 5.1 Extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides. Hydrogen chloride gas. Nitrogen oxides.

### 5.3 Advice for firefighters

Wear breathing apparatus. Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours.

### 6.2 Environmental precautions

Do not let product enter drains

### 6.3 Methods and materials for containment and clean up

Use spill kit to contain spillage & use wet brushing to place in a suitable container for disposal. Do not flush with water.

### 6.4 Reference to any other sections

For disposal, see section 13

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

For precautions, see section 2.2

### 7.2 Conditions for safe storage, including any incompatibilities.

Store in cool place. Keep container tightly closed in well-ventilated place. Containers which are opened must be carefully resealed and stored upright to prevent leakage.

### 7.3 Specific end use

Apart from uses in Section 1.2, no other specific uses are stipulated.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

None of the constituent chemicals have workplace exposure limits.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Wash hands before work break and at the end of the day

#### 8.2.2 Personal protection

##### Eye/face protection

Lab specs.

##### Skin Protection

Nitrile gloves (splash protection only) and lab coat

##### Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as CEN (EU) as back up to engineering control

##### Environmental exposure controls

Do not let product enter drains

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Transparent liquid
b) Odour	No data available
c) Odour threshold	No data available
d) pH	No data available
e) Melting point / freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability	No data available
j) Upper / lower flammability or exposure limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Solubility(ies)	No data available
o) Partition coefficient: n-octanol / water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidising properties	No data available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

### 10.2 Chemical stability

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition materials

No data available
Strong oxidising agents, strong acids, strong bases
No data available. In case of fire see section 5

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

a) Acute toxicity	No data available
b) Skin corrosion / irritation	No data available
c) Serious eye damage / irritation	No data available
d) Respiratory or skin sensitization	No data available
e) Germ cell mutagenicity	No data available
f) Carcinogenicity	No data available
g) Reproductive toxicity	No data available
h) STOT - single exposure	No data available
i) STOT - repeated exposure	No data available
j) Aspiration hazard	No data available

### 11.2 Delayed and immediate effects as well as chronic effects from short to long term exposure

#### Symptoms

No symptoms.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data 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 and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product / packaging disposal

Dispose of packaging as unused product. Offer surplus and non-recyclable solutions to a licensed disposal company.

Observe all EU and local environmental regulations

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**14. TRANSPORT INFORMATION**
**14.1 UN number**

A.R.D./R.I.D.	Not hazardous	I.M.D.G.	Not hazardous	I.C.A.O.-T.I.	Not hazardous	A.D.N.	Not hazardous
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**14.2 UN proper shipping name**

A.R.D./R.I.D.	Not hazardous	I.M.D.G.	Not hazardous
I.C.A.O.-T.I.	Not hazardous	A.D.N.	Not hazardous

**14.3 Transport hazard class(es)**

A.R.D./R.I.D.	Not hazardous	I.M.D.G.	Not hazardous	I.C.A.O.-T.I.	Not hazardous	A.D.N.	Not hazardous
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**14.4 Packaging group**

A.R.D./R.I.D.	Not hazardous	I.M.D.G.	Not hazardous	I.C.A.O.-T.I.	Not hazardous	A.D.N.	Not hazardous
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**14.5 Environmental hazards**

A.R.D./R.I.D.	Not hazardous	I.M.D.G.	Not hazardous	I.C.A.O.-T.I.	Not hazardous	A.D.N.	Not hazardous
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**14.6 Special precautions for user**

A.R.D./R.I.D.	No data available	I.M.D.G.	No data available
I.C.A.O.-T.I.	No data available	A.D.N.	No data available

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**15. REGULATORY INFORMATION**
**15.1 Safety, health and environmental regulations**

No data available.

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

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**16. OTHER INFORMATION**
**a) Changes since last revision**

First issue

**b) Key to any abbreviations used**

PPE	Personal protective equipment
A.R.D./R.I.D.	International Carriage of Dangerous Goods by Road / Rail
I.M.D.G.	International Maritime Dangerous Goods
I.C.A.O.-T.I.	Technical Instructions for the Safe Transport of Dangerous Goods by Air
A.D.N.	International Carriage of Dangerous Goods by Inland Waterways
TWA	Time-weighted average
STEL	Short-term exposure limit

**c) References and sources for data**

sigma-aldrich.com

fishersci.co.uk

anatrace.com

**d) Indication of methods used for classification (mixtures only)**

No data available

**e) List of Hazard and Precautionary phrase not listed in full in other sections**

See Section 2.1.

**f) Advice for training**

*Disclaimer:*

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Molecular Dimensions Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product.