

## 1. IDENTIFICATION OF SUBSTANCE AND COMPANY DETAILS

### 1.1 Product Identifier

Product name: 1M D-Sorbitol  
Product number: MD2-100(250)-215  
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) |
|------------|-----------|-----------|---------|---------------|-----------|-----------|
| D-Sorbitol | 200-061-5 | -         | 50-70-4 | 1M            |           |           |

## 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.

### 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

## 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.

## 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

## 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  |

## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| 10.1 Reactivity                         | No data available                                   |
| 10.2 Chemical stability                 | No data available                                   |
| 10.3 Possibility of hazardous reactions | No data available                                   |
| 10.4 Conditions to avoid                | No data available                                   |
| 10.5 Incompatible materials             | Strong oxidising agents, strong acids, strong bases |
| 10.6 Hazardous decomposition materials  | No data available. In case of fire see section 5    |

## 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.

## 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 |

## 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

#### 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 |
|---------------|---------------|----------|---------------|---------------|---------------|--------|---------------|

##### 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 |
|---------------|---------------|----------|---------------|---------------|---------------|--------|---------------|

##### 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 |
|---------------|---------------|----------|---------------|---------------|---------------|--------|---------------|

##### 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 |
|---------------|---------------|----------|---------------|---------------|---------------|--------|---------------|

##### 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 |

#### 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.

#### 16. OTHER INFORMATION

##### a) Changes since last revision

First generation

##### 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.