

# SAFETY DATA SHEET

D-allulose

Version 1.0

Issue date: 01/06/2021

Revision date: 01/06/2021

SDS Record Number: CSSS-TCO-010-121112

## 1. Identification

**GHS product identifier:** D-allulose

**Identification of the product:** See section 3

**Recommended use:** Mainly used for chemical and biochemical research. Chemical products are used as raw materials for food processing in some countries.

**Recommended Restrictions:** Not available

**Details of the supplier of the safety data sheet:**

**Supplier(Manufacturer):** Shandong Fuyang Biotechnology Co., LTD

**Address:** Pingyuan Longmen Development Zone, Dezhou City, Shandong Province, China

**Contact person(E-mail):** nifengfei2004@163.com

**Telephone:** +86-534-2169017 +86-15806887983

**Fax:** +86-534-2169106

**Emergency number:** +86-534-2169017

## 2. Hazards identification

**GHS classification:**

**Physical hazards:** Not classified

**Health hazards:** Not classified

**Environmental hazards:** Not classified

**GHS label elements:**

**Hazard Pictograms: :** No hazard pictogram is used.

**Signal word:** No signal word is used.

**Hazard statement:** Not applicable

**Precautionary statement:**

**Prevention:** Not applicable

**Response:** Not applicable

**Storage:** Not applicable

**Disposal:** Not applicable

**Specific hazards:** Not applicable

## 3. Composition/information on ingredients

**Substance/Mixture:** Substance

**Ingredient(s):**

| Chemical Name | CAS No.  | Concentration                                     |
|---------------|----------|---|
| D-allulose    | 551-68-8 | D-allulose (551-68-8) 99%<br>water (7732-18-5) 1% |

## 4. First aid measures

**Description of necessary first-aid measures:**

**Inhalation:** Quickly leave the scene to a place with fresh air and keep the respiratory tract unobstructed.

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|  |  |
|--|--|
| <b>Skin:</b>   | Seek medical attention if you feel unwell.                                     |
| <b>Eye:</b>  | Wash off with soap and plenty of water.  |
| <b>Ingestion:</b>  | Flush eyes with water as a precaution.   |
| <b>Most important symptoms and effects, both acute and delayed:</b>                          | Never give anything by mouth to an unconscious person. Rinse mouth with water. |
| <b>Indication of immediate medical attention and special treatment needed, if necessary:</b> | The product is not classified as harmful to human health effect.               |
|  | Treat symptomatically.   |

## 5. Fire-fighting measures

|   |   |
|---|---|
| <b>Suitable extinguishing media:</b>                          | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.        |
| <b>Unsuitable extinguishing media:</b>                        | Not available.  |
| <b>Specific hazards arising from the chemical:</b>            | Hazardous decomposition products formed under fire conditions. - Carbon oxides. |
| <b>Protective equipment and precautions for firefighters:</b> | Wear self contained breathing apparatus for fire fighting if necessary.         |

## 6. Accidental release measures

|   |  |
|---|--|
| <b>Personal precautions, protective equipment and emergency procedures:</b> | Avoid dust formation.  |
| <b>Environmental precautions:</b>   | Do not let product enter drains.                                       |
| <b>Methods and materials for containment and cleaning up:</b>               | Sweep up and shovel. Keep in suitable, closed containers for disposal. |

## 7. Handling and storage

|  |   |
|--|---|
| <b>Precautions for safe handling:</b>                                | Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. |
| <b>Conditions for safe storage, including any incompatibilities:</b> | Keep container tightly closed in a dry and well-ventilated place.   |

## 8. Exposure controls/personal protection

|  |   |
|--|---|
| <b>Control parameters:</b>               |   |
| <b>Occupational exposure limits:</b>     | Not available.  |
| <b>Appropriate engineering controls:</b> | Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.  |
| <b>Personal protective equipment:</b>    |   |
| <b>Eye/face protection:</b>              | Safety glasses.   |
| <b>Skin protection:</b>                  | Protective suit, Use disposable clothing if appropriate.  |
| <b>Respiratory protection:</b>           | Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| <b>Hand protection:</b>                  | For prolonged or repeated contact use protective gloves.  |

## 9. Physical and chemical properties

**Appearance:**

|  |  |
|--|--|
| <b>Physical state:</b>                               | Solid  |
| <b>Form:</b>   | Powder   |
| <b>Color:</b>  | White or yellow  |
| <b>Odor:</b>   | Sweet, no peculiar smell                                   |
| <b>Odour threshold:</b>                              | Not available  |
| <b>PH:</b>   | Not available  |
| <b>Melting point / range:</b>                        | 109°C  |
| <b>Initial boiling point and boiling range:</b>      | Not available  |
| <b>Flash point:</b>                                  | Not available  |
| <b>Evaporation rate:</b>                             | Not available  |
| <b>Flammability (solid, gas) :</b>                   | Not available  |
| <b>Upper/lower flammability or explosive limits:</b> | Not available  |
| <b>Vapor pressure:</b>                               | Not available  |
| <b>Vapor density:</b>                                | Not available  |
| <b>Density:</b>                                      | Not available  |
| <b>Solubility :</b>                                  | Soluble in water, methanol, ethanol, insoluble in propanol |
| <b>Partition coefficient (n-octanol/water) :</b>     | Not available  |
| <b>Auto-ignition temperature:</b>                    | Not available  |
| <b>Decomposition temperature:</b>                    | Not available  |
| <b>Molecular weight:</b>                             | 180.16   |
| <b>Molecular formula:</b>                            | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>              |
| <b>Viscosity:</b>                                    | Not available  |
| <b>Specific gravity:</b>                             | Not available  |

## 10. Stability and reactivity

|  |   |
|--|---|
| <b>Reactivity:</b>                         | The substance is stable under normal storage and handling conditions. |
| <b>Chemical stability:</b>                 | Material is stable under normal conditions                            |
| <b>Possibility of hazardous reactions:</b> | No dangerous reaction known under conditions of normal use.           |
| <b>Conditions to avoid:</b>                | Electrostatic discharge, heat, humidity, etc.                         |
| <b>Incompatible materials:</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products:</b>   | Carbon oxides.  |

## 11. Toxicological information

**Toxicological data:**

|   |  |
|---|--|
| <b>Toxicological information:</b>         | Occupational exposure to the substance or mixture may cause adverse effects. |
| <b>Acute toxicity:</b>                    |  |
| <b>LD50(Oral, Rat):</b>                   | Not available.   |
| <b>LD50(Dermal, Rabbit):</b>              | Not available.   |
| <b>LC50(Inhalation, Rat):</b>             | Not available.   |
| <b>Skin corrosion/Irritation:</b>         | Not classified   |
| <b>Serious eye damage/irritation:</b>     | Not classified   |
| <b>Respiratory or skin sensitization:</b> | Not classified   |
| <b>Germ cell mutagenicity:</b>            | Not classified   |

|                                |                |
|--------------------------------|----------------|
| <b>Carcinogenicity:</b>        | Not classified |
| <b>Reproductive toxicity:</b>  | Not classified |
| <b>STOT- single exposure:</b>  | Not classified |
| <b>STOT-repeated exposure:</b> | Not classified |
| <b>Aspiration hazard:</b>      | Not classified |
| <b>Other information</b>       | Not classified |

## 12. Ecological information

### Toxicity:

| Acute toxicity |     | Time | Species | Method   | Evaluation | Remarks |
|----------------|-----|------|---------|----------|------------|---------|
| LC50           | N/A | 96h  | Fish    | OECD 203 | N/A        | N/A     |
| EC50           | N/A | 48h  | Daphnia | OECD 202 | N/A        | N/A     |
| EC50           | N/A | 72h  | Algae   | OECD 201 | N/A        | N/A     |

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Persistence and degradability:</b> | No data available. |
| <b>Bioaccumulative potential:</b>     | No data available. |
| <b>Mobility in soil:</b>              | No data available. |
| <b>Other adverse effects:</b>         | No data available. |

## 13. Disposal considerations

|   |  |
|---|--|
| <b>Disposal methods:</b>                    | Collect and reclaim or dispose in sealed containers at licensed waste disposal site.   |
| <b>Waste from residues/unused products:</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging:</b>              | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.       |

## 14. Transport information

|   | Land transport(ADR/RID) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|---|-------------------------|----------------------|---------------------------|
| <b>UN-Number</b>  | Not regulated           | Not regulated        | Not regulated             |
| <b>UN Proper shipping name</b>  | Not regulated           | Not regulated        | Not regulated             |
| <b>Transport hazard Class</b>   | Not regulated           | Not regulated        | Not regulated             |
| <b>Packaging group</b>  | Not regulated           | Not regulated        | Not regulated             |
| <b>Environmental hazards</b>  | No                      | No                   | No                        |
| <b>Special precautions for user</b>   | See section 2           | See section 2        | See section 2             |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not regulated           | Not regulated        | Not regulated             |

## 15. Regulatory information

### Inventory status:

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

|                               |  |
|-------------------------------|--|
| <b>Indication of changes:</b> | Version 1.0 Amended by GHS rev 4   |
| <b>Training instructions:</b> | Not applicable.  |
| <b>Further information:</b>   | This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.   |
| <b>Notice to reader:</b>      | Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.<br>This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. |