

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

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

5. Fire-fighting measures

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

6. Accidental release measures

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

7. Handling and storage

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

8. Exposure controls/personal protection

Control parameters:	
Occupational exposure limits:	Not available.
Appropriate engineering controls:	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.
Personal protective equipment:	
Eye/face protection:	Safety glasses.
Skin protection:	Protective suit, Use disposable clothing if appropriate.
Respiratory protection:	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).
Hand protection:	For prolonged or repeated contact use protective gloves.

9. Physical and chemical properties

Appearance:

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

10. Stability and reactivity

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

11. Toxicological information

Toxicological data:

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

Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	No data available.

13. Disposal considerations

Disposal methods:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Waste from residues/unused products:	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).
Contaminated packaging:	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)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2	See section 2	See section 2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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

Indication of changes:	Version 1.0 Amended by GHS rev 4
Training instructions:	Not applicable.
Further information:	This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.
Notice to reader:	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. 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.