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% water (7732-18-5) 1%

4. First aid measures

Description of necessary first-aid measures:

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

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

5. Fire-fighting measures Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unervise the cartine media: Nate envise the cartine media:

Unsuitable ext	nguishing me	edia:		Not available.
Specific haza	rds arising	from	the	Hazardous decomposition products formed under fire conditions Carbon oxides.
chemical:				
Protective equ	ipment and	precaut	ions	Wear self contained breathing apparatus for fire fighting if necessary.
for firefighters				

6. Accidental release measures

Personal precautions, protective	Avoid dust formation.	
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 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	
Respiratory protection:	(US) or CEN (EU).	
Hand protection:	For prolonged or repeated contact use protective gloves.	

9. Physical and chemical properties

Appearance:

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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	Not available
limits:	
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 t	oxicity	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 ar	d degrad	ability:	No data	available.	•	•	

r croistenee and degradability.	
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	Yes
	Substances (EINECS)	
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.