

## SAFETY DATA SHEET

Methyl beta-D-glucopyranoside

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name	Methyl beta-D-glucopyranoside
Product number	19056919

**CAS number** 709-50-2

**EC number** 211-909-9

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

Uses advised against For research and development purposes. Not suitable for human consumption or veterinary purposes.

#### 1.3. Details of the supplier of the safety data sheet

Supplier	Molekula Ltd.
	Lingfield Way,
	Darlington,
	DL1 4XX,
	United Kingdom
	+44 (0) 3302000333
	info@molekula.com

#### 1.4. Emergency telephone number

+44 (0) 1380 725952

### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	
Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
2.2. Label elements	
EC number	211-909-9
Hazard statements	NC Not Classified

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients	
3.1. Substances	

Product name

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Methyl beta-D-glucopyranoside

CAS number	709-50-2	
EC number	211-909-9	
Chemical formula	C7H14O6	
SECTION 4: First aid measure	9S	
4.1. Description of first aid me	pasures	
General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.	
Inhalation	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.	
Ingestion	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.	
Skin contact	No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.	
Protection of first aiders	Use protective equipment appropriate for surrounding materials.	
4.2. Most important symptoms and effects, both acute and delayed		
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	May be slightly irritating to eyes.	
4.3. Indication of any immedia	te medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.	
Specific treatments	No special treatment required.	
SECTION 5: Firefighting meas	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fr	rom the substance or mixture	
Specific hazards	None known.	
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2).	
5.3. Advice for firefighters		

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

Personal precautions No specific recommendations. For personal protection, see Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning upReuse or recycle products wherever possible. Collect spillage with a shovel and broom, or<br/>similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal<br/>securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a<br/>spillage. Dispose of contents/container in accordance with national regulations.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and sto	prage
7.1. Precautions for safe hand	dling
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage	ge, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Moisture sensitive. Store under inert gas.
Storage class	Unspecified storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure contro	Is/Personal protection
8.1. Control parameters	
STEL	
TWA	
8.2. Exposure controls	
Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection	No specific hand protection recommended. Large Spillages: Wear protective gloves.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Not regarded as dangerous for the environment.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Appearance	Crystalline powder.
Colour	White/off-white.
Odour	Not known.
Odour threshold	No information available.
рН	No information available.
Melting point	111 - 113°C/231.8 - 235.4°F
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
9.2. Other information	
Molecular weight	194.18
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	

Stability

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

Acute toxicity - inhalation

Skin corrosion/irritation

Skin sensitisation

### Methyl beta-D-glucopyranoside

Possibility of hazardous reactions	No potentially hazardous reactions known.	
10.4. Conditions to avoid Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.	
10.5. Incompatible materials		
Materials to avoid	Avoid contact with strong oxidising agents.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2).	
SECTION 11: Toxicological in	formation	
11.1. Information on toxicological effects		
Acute toxicity - oral		
Summary	Based on available data the classification criteria are not met.	
Acute toxicity - dermal		
Summary	Based on available data the classification criteria are not met.	

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Summary	Based on available data the classification criteria are not met.

Summary	Based on available data the classification criteria are not met.

Serious eye damage/irritation	
Summary	Based on available data the classification criteria are not met.

Respiratory sensitisation	

Summary	Based on available data the classification criteria are not met.

Summarv	Based on available data the classification criteria are not met.
Carrinary	

Germ cell mutagenicity	
Summary	Based on available data the classification criteria are not met.

Carcinogenicity	
Summary	Based on available data the classification criteria are not met.

None of the ingredients are listed or exempt. IARC carcinogenicity **Reproductive toxicity** 

Summary Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

Based on available data the classification criteria are not met. Summary

### Specific target organ toxicity - repeated exposure Summary Based on available data the classification criteria are not met. Aspiration hazard Not relevant. Solid.

Summary

General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May be slightly irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
SECTION 12: Ecological information	
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
12.1. Toxicity	
Acute aquatic toxicity	
Summary	Based on available data the classification criteria are not met.
Chronic aquatic toxicity	
Summary	Based on available data the classification criteria are not met.
12.2. Persistence and degradability	
Persistence and degradability	
	The degradability of the product is not known.

 12.3. Bioaccumulative potential

 Bioaccumulative potential

 No data available on bioaccumulation.

Partition coefficient No information available.

12.4. Mobility in soil

Mobility

No data available.

12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

 General information
 The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.

Disposal methods Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

# Environmentally hazardous substance/marine pollutant No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

### Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.
	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

### SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</li> <li>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</li> <li>IATA: International Air Transport Association.</li> <li>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>CAS: Chemical Abstracts Service.</li> <li>ATE: Acute Toxicity Estimate.</li> <li>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</li> <li>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</li> <li>EC<sub>50</sub>: 50% of maximal Effective Concentration.</li> <li>PBT: Persistent, Bioaccumulative and Toxic substance.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> </ul>
Training advice	Only trained personnel should use this material.
Revision date	09/11/2021
Revision	1
SDS number	458

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