GC1055 v1.0

# **Glentham** LIFE SCIENCES

## Safety Data Sheet

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1.	Identification of the substance/mixture and of the company/undertaking	
ı. 1.1	Product identifier	
	Product name       :       Methyl 2-O-Allyl-4,6-O-benzylidene-α-D-mannopyranoside         Product code       :       GC1055         CAS number       :       82228-09-9	
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	PC21: Laboratory chemicals.	
1.3	Details of the supplier of the safety data sheet	
	Company name:Glentham Life Sciences LtdTelephone:+44 (0) 1225 667 798Unit 5 Leafield WayFax:+44 (0) 2033 978 909Corsham SN13 9SWEmail:info@glentham.comUnited KingdomWeb:www.glentham.com	
1.4	Emergency telephone number	
	Emergency telephone number: +44 (0) 1225 667 798 (09.00 – 17.00 GMT)	
1.5	REACH	
	A registration number is not available for this substance as the substance or its uses are exempted from registration, the ann tonnage does not require a registration or the registration is envisaged for a later registration deadline.	ual
2.	Hazards identification	
2.1	Classification of the substance or mixture Classification under CLP	
	This product has no classification under CLP.	
2.2	Label elements	
	Label elements under CLP	
• •	This product has no label elements.	
2.3	Other hazards PBT	
	This substance is not identified as a PBT substance.	
3.0	Composition/information on ingredients	
3.1	Substances	
	Product name : Methyl 2-O-Allyl-4,6-O-benzylidene-α-D-mMW: 322.35 annopyranoside	
	CAS number : 82228-09-9 MF :	
4.0	First aid measures Description of first aid measures	
4.1	Skin contact	
	Wash immediately with plenty of soap and water.	
	Eye contact	
	Bathe the eye with running water for 15 minutes.	
	Ingestion	
	Wash out mouth with water.	
	Inhalation	
	Consult a doctor.	
4.2	Most important symptoms and effects, both acute and delayed Skin contact	
	There may be mild irritation at the site of contact.	
	Eye contact	
	There may be irritation and redness.	
	Ingestion	
	There may be irritation of the throat. Inhalation	
	There may be irritation of the throat with a feeling of tightness in the chest.	
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## Safety Data Sheet

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Immediate effects can be expected after short-term expoure.     Interdiate 'rgecial treatment after the special treatment needed     Immediate 'rgecial treatment     Not applicable.     Fito-fighting measures     Suitable extinguishing media for the surrounding fire should be used.     Suitable extinguishing media     Suitable extinguishing media for the surrounding fire should be used.     Suitable extinguishing media     Suitable extinguishing media for the surrounding fire should be used.     Suitable extinguishing media for the surrounding fire should be used.     Suitable extinguishing media     Suitable extinguishing media for the surrounding fire should be used.     Suitable extinguishing media     Suitable extinguishing protective divergence     Suitable extinguishing protective divergence     Suitable extinguishing protective specified treatment     Support treatment     In combustion entities botic furmes.     Suitable extinguishing protective quipment of extenses     Suitable extinguishing apparatus. Wear protective clothing to prevent contact with skin and eyes.     Suitable extinguishing protective quipment of extenses     Suitable extinguishing protective quipment of extenses     Suitable extinguishing apparatus.     Suitable extinguishing apparatus apparatus.     Suitable extinguishing apparatus.     Suitable ext		Delayed / immediate effects
Not applicable.       5.0     Fire-fighting measures       5.1     Example long meals       Sutuble extinguishing medi     Sutuble extinguishing media for the surrounding fire should be used.       5.2     Seciel hazards atriling trom the substance or mixture       Exposure hazards     In combustion emilts toxic furnes.       5.3     Arcidential release measures       6.4     Arcidential release measures       7.5     Personal prectations.       8.6     De not discharge into data and emargency procedures.       9.7     Personal prectations.       8.7     Personal prectations.       8.8     De not discharge into data in or rivers.       8.3     Refer to section 8 of SDS for personal protection details.       8.4     Exposure prectations       9.7     Methods and material for constantint and deuring up       10.8     Refer to section 8 of SDS.       7.0     Handling and storage       7.1     Precentions for asfe harding       11.8     Refer to section 8 of SDS.       7.9     Handling and storage       7.1     Precentions for asfe harding       12.8     Contrates for asfe torage, including any incompatibilities       13.8     Storage contailors       14.8     Contrate parenters       15.9     Contrates for asfe torage, including any inco		
Not applicable.           5.0         Fire-fighting measures           5.1         Eminpicabing media           Suitable extinguishing media for the surrounding fire should be used.         6           5.2         Speake hazards arking from the substance or mixture           Exposure hazards         In combustion or mits took furnes.           5.3         Advice for fre-flighting           Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.           6.0         Accidentia release measures           8.1         Perional precultion, protective subjected and energency procedures           Perional precultion, protective subjected and energency procedures         Perional precultion, protective subject and energency procedures           Variant field for a strain or hypers.         13         Methods and material for containment and cleaning up           Clearency procedures         Wash the spillage site with large amounts of water.         14           8.2         Refer to section 8 of SDS.         15           7.4         Handling and storage         15           7.5         Conditions for as a handling         Humoning requirements           Avoid the formation or spread of dust in the air.         12         Conditions for as a handling           1         Perional paratitized area. Keep containert tightly	4.3	
5.0       Fire-fighting measures         5.1       Extinguishing media for the surrounding fire should be used.         5.2       Special hazards arings from the substance or minure         Exposite hazards       In combustion emilts toxic furmes.         5.3       Axies for fieldpters         Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.         6.0       Accidental release measures         6.1       Personal precasions protective equipment and emergency procedures         Personal precasions       Refer to section 8 / SD for personal protection details.         6.2       Environmental precasions         Do not discharge into for darins or rivers.       6.3         8.3       Matrices are obtained to reactions         8.4       Refer to section 8 / SDS.         7.0       Handling and storage         7.1       Preceations for and storage into with large amounts of water.         8.3       Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.         7.3       Specific and usels)         8.4       Exposure controls/personal protection         8.5       Exposure controls/personal protection         8.6       Exposure controls/personal protection         8.7       Refer to section a set ha		
1:       Extinguishing media         2:       Special backda sking from the substance or minure         Exposure hazards       In combustion emils toxic fumes.         3:       Advice for fire-fighters         Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.		
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52       Special heards aring from the substance or mixture Exposure heards in nombustion emits toxic furmes.         53       Advice for fin-fighters         Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.         64       Personal precations, protective equipment and emergency procedures         Personal precations       Refer to section 8 of SDS for personal protection details.         62       Environmental precations         Do not discharge into drains or rivers.       Bathods and metrafil for containment and cleaning up Clean-up procedures         Wash the spillage site with large amounts of water.       Refer to section 8 of SDS.         7.0       Handling and storage         7.1       Precubics for safe shanding Heading requirements         4.2       Combusto for safe shanding Heading requirements         4.3       Refer to section 8 of SDS.         7.4       Handling and storage         7.5       Handling requirements         4.4       the formation or apread of duts in the air.         7.2       Conditions for safe storage, including any incompatibilities         5.5       Storage conditions         5.5       Storage conditions         5.6       Conditio parameters         4.7       Procesure, fordaling and storage         7.8	5.1	Extinguishing media
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a Addes for free-sighters         Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.         6.0       Accidental release measures         6.1       Personal precautions         Refer to section 8 of SDS for personal protection details.         6.2       Environmental precautions         Do not discharge into drains or rivers.         6.3       Methods and material for containment and cleaning up Cleaner procedures         Clean-up procedures       Wash the spillage site with large amounts of water.         6.3       Reference to other sections         Refer to section 8 of SDS.       Reference to discharge into drains or rivers.         7.4       Handling and storage         7.5       Methods and material for containment and cleaning up Cleaner procedures         Wash the spillage site with large amounts of water.       Refer to section 8 of SDS.         7.5       Reference to other sections         Reference to other sections for safe handling Handling requirements         Handling and storage       Xorid the formation or spread of dust in the air.         7.2       Conditions for safe storage, including up incompatibilities         Storage conditions       Storage conditions         Storage conditions       Storage conditions         Store in Locol, well ventilated area. Keep contai	5.2	Special hazards arising from the substance or mixture
5.3     Advice for fire-fightere       Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.       6.0     Accidental release measures       6.1     Personal precautions, protective equipment and emergency procedures       Parsonal precautions     Refer to section 6 SDS for personal protection details.       6.2     Environmental precautions       Do not discharge into drains or rivers.     6       1.3     Methods and material for containment and cleaning up       Clean-up procedures     Wash the spillage site with large amounts of water.       6.3     Refer to section 8 of SDS.       7.4     Handling and storage       7.7     Handling and storage       7.8     Conditions for sale storage, including any incompatibilities       8     Stores (in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.       7.3     Specific end use(s)       8.1     Controls/personal protection       8.2     Exposure controls/personal protection       8.3     Explication for sale available.       8.4     Refer to get/one       8.5     Refer to section in the air.       7.6     Handling and storage       7.7     Handling and storage       7.8     Conditions for sale storage, including any incompatibilities       Store in cool, well ven		Exposure hazards
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.         6.0       Accidental release measures         6.1       Presonal precaution, protective sequement and emergency procedures         Personal precaution, protective sequement and emergency procedures         Personal precaution, protective sequement and emergency procedures         Do not discharge into drains or rivers.         6.3       Methods and material for containment and eleming up         Clean-up procedures         Wash the spillage site with large amounts of water.         6.3       Reference to other sections         Reference to action, so for SDS.         7.0       Handling and storage         7.1       Precautions for stafe handling         Handling requirements       Avoid the formation or spread of dust in the air.         7.2       Countions for stafe torage, including any incompatibuilities         Storage contitions       Storage contailer tightly closed. Avoid contact with water or humidity.         7.3       Specific end use(s)         Not applicable.       Not applicable.         8.2       Exposure controls/personal protection         8.3       Exposure controls/personal protection         8.4       Exposure controls/personal protection         8.5       Exposure controls/personal		In combustion emits toxic fumes.
<ul> <li>6.9 Accidental release measures</li> <li>6.1 Personal precautions</li> <li>Refer to section 8 of SDS for personal protection details.</li> <li>6.2 Environmental precautions</li> <li>Do not discharge into drains or rivers.</li> <li>6.3 Methods and naterial for containment and eleming up</li> <li>Clean-up procedures</li> <li>Wash the spillage site with large amounts of water.</li> <li>6.3 Reference to other sections</li> <li>Refer to section 8 of SDS.</li> <li>7.0 Handling and storage</li> <li>7.1 Precautions for safe handling</li> <li>Handling requirements</li> <li>Avoid the formation or spread of dust in the air.</li> <li>7.2 Conditions for safe handling</li> <li>Handling requirements</li> <li>Store in cool, well ventilated area. Keep container lightly closed. Avoid contact with water or humidity.</li> <li>7.3 Specific end usaeja</li> <li>No data available.</li> <li>8.0 Exposure controls/personal protection</li> <li>8.1 Control parameters</li> <li>Workplace exposure limits</li> <li>Not applicable.</li> <li>Respiratory protective device with particle filter.</li> <li>Respiratory protection</li> <li>Respiratory protection</li> <li>Respiratory protection</li> <li>Store protection</li> <li>Respiratory protection</li> <li>8.2 Exposure controls/personal protection</li> <li>8.3 Englicable.</li> <li>8.4 Protection parameters</li> <li>Workplace exposure limits</li> <li>Not applicable.</li> <li>Respiratory protective device with particle filter.</li> <li>Respiratory protection</li> <li>Respiratory protection</li> <li>Respiratory protection</li> <li>Sterig gloses. Ensure eye bath is to hand.</li> <li>Stafey glasses. Ensure eye bath is to hand.</li> <li>Stafey glasses.</li> </ul>	5.3	Advice for fire-fighters
A. Personal precautions, protective equipment and emergency procedures     Personal precautions     Refer to section 8 of SDS for personal protection details.     Environmental precautions     Do not discharge into drains or nivers.     Mathods and material for containment and cleaning up     Clean-up procedures     Wash the spillage site with large amounts of water.     Refer to section 8 of SDS.     Reference to other sections     Refer to section 8 of SDS.     To recautions for a set bandling     Handling and storage     Zonduling and storage     Zonduling requirements     Avoid the formation or spread of dust in the air.     Conductions for all storage, including any incompatibilities     Storag conditions     Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.     Soperfice end use(s)     No data available.     Workplace aspoarse limits     Not data valiable.     Respiratory protective     Respiratory protective device with particle filter.     Respiratory protection     Respiratory protection     Respiratory protective device with particle filter.     Hand protection     Safety glasses. Ensure eye bath is to hand.     Skin protection		Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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Avoid the formation or spread of dust in the air.         7.2       Conditions for safe storage, including any incompatibilities         Storage conditions       Storage conditions         Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.         7.3       Specific end use(s)         No data available.         Reposure controls/personal protection         8.0       Exposure controls/personal protection         8.1       Control parameters         Workplace exposure limits       Not applicable.         Respiratory protection       Respiratory protection         Respiratory protection       Respiratory protection         Respiratory protection       Protection         Safety glasses. Ensure eye bath is to hand.       Skin protection	7.1	Precautions for safe handling
<ul> <li>7.2 Conditions for safe storage, including any incompatibilities Storage conditions Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.</li> <li>7.3 Specific end use(s) No data available.</li> <li>8.0 Exposure controls/personal protection</li> <li>8.1 Control parameters Workplace exposure limits Not applicable.</li> <li>8.2 Exposure controls</li> <li>8.3 Engineering measures Not applicable.</li> <li>8.4 Respiratory protection</li> <li>8.5 Respiratory protective device with particle filter.</li> <li>8.6 Hand protection</li> <li>8.7 Protective gloves.</li> <li>8.8 Eye protection</li> <li>8.9 Safety glasses. Ensure eye bath is to hand.</li> <li>8.1 Skin protection</li> </ul>		Handling requirements
Storage conditions         Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.         7.3       Specific end use(s) No data available.         8.0       Exposure controls/personal protection         8.1       Control parameters Workplace exposure limits Not applicable.         8.2       Exposure controls         Engineering measures Not applicable.         Respiratory protection         Respiratory protection         Respiratory protection         Protection         Storage condition         Storage condition         Storage condition         Storage condition         Respiratory protection         Respiratory protection         Safety glasses. Ensure eye bath is to hand.         Skin protection		Avoid the formation or spread of dust in the air.
<ul> <li>Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.</li> <li>7.3 Specific end use(s) No data available.</li> <li>8.0 Exposure controls/personal protection</li> <li>8.1 Control parameters Workplace exposure limits Not applicable.</li> <li>8.2 Exposure controls</li> <li>Engineering measures Not applicable.</li> <li>8.3 Exposure controls</li> <li>Respiratory protection</li> <li>Respiratory protective device with particle filter.</li> <li>Hand protection</li> <li>Protective gloves.</li> <li>Eye protection</li> <li>Safety glasses. Ensure eye bath is to hand.</li> <li>Skin protection</li> </ul>	7.2	Conditions for safe storage, including any incompatibilities
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Not applicable. 8.2 Exposure controls Engineering measures Not applicable. Respiratory protection Respiratory protective device with particle filter. Hand protection Protective gloves. Eye protection Safety glasses. Ensure eye bath is to hand. Skin protection	8.1	Control parameters
<ul> <li>8.2 Exposure controls</li> <li>Engineering measures</li> <li>Not applicable.</li> <li>Respiratory protection</li> <li>Respiratory protective device with particle filter.</li> <li>Hand protection</li> <li>Protective gloves.</li> <li>Eye protection</li> <li>Safety glasses. Ensure eye bath is to hand.</li> <li>Skin protection</li> </ul>		Workplace exposure limits
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Respiratory protection Respiratory protective device with particle filter. Hand protection Protective gloves. Eye protection Safety glasses. Ensure eye bath is to hand. Skin protection		Engineering measures
Respiratory protective device with particle filter. Hand protection Protective gloves. Eye protection Safety glasses. Ensure eye bath is to hand. Skin protection		Not applicable.
Hand protection Protective gloves. Eye protection Safety glasses. Ensure eye bath is to hand. Skin protection		Respiratory protection
Protective gloves. Eye protection Safety glasses. Ensure eye bath is to hand. Skin protection		Respiratory protective device with particle filter.
Eye protection Safety glasses. Ensure eye bath is to hand. Skin protection		
Safety glasses. Ensure eye bath is to hand. Skin protection		
Skin protection		
Protective clothing.		
		Protective clothing.

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## Safety Data Sheet

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	Physical and chemical properties
ə.1	Information on basic physical and chemical properties
	Physical Form:
	Colour:
9.2	Other information
	Not applicable.
10.0	Stability and reactivity
10.1	Reactivity
10.2	Chemical stability
	Stable under normal conditions.
10.3	Possibility of hazardous reactions
	Hazardous reactions
	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to condition or materials listed below.
0.4	Conditions to avoid
	Heat.
10.5	Incompatible materials
	Materials to avoid
	Strong acids. Strong oxidising agents.
1.0	Toxicological information
1.1	Information on toxicological effects
	Toxicity values
	Not applicable.
1.2	Information on toxicological effects
	Skin contact
	There may be mild irritation at the site of contact.
	Eye contact There may be irritation and redness.
	There may be irritation of the throat.
	Inhalation
	There may be irritation of the throat with a feeling of tightness in the chest.
	Delayed / immediate effects
	Immediate effects can be expected after short-term exposure.
	Other information
12.0	Ecological information
2.1	Toxicity
	Not applicable.
2.2	Persistence and degradability
	Biodegradable.
2.3	Bioaccumulative potential
	No bioaccumulation potential.
2.4	Mobility in soil
	No data available.
2.5	Results of PBT and vPvB assessment This substance is not identified as a PBT substance.



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	Negligible ecotoxicity.
13.0	Disposal considerations
13.1	Waste treatment methods
	Disposal operations
	Transfer to a suitable container and arrange for collection by specialised disposal company. NB
	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
 14.0	Transport information
	This product does not require a classification for transport.
15.0	Regulatory information
	Safety, health and environmental regulations/legislation specific for the substance or mixture
	Not applicable.
	Chemical Safety Assessment
	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.
 16.0	Other information
	Other information
	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

#### Legal 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. This company shall not be held liable for any damage resulting from handling or from contact with the above product.