GM0513 v1.0

# **Glentham** LIFE SCIENCES

### Safety Data Sheet

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1.	Identification of the substance/mixture and of the company/undertaking
1.1	Product identifier
	Product name : Fmoc-Cit-OH
	Product code : GM0513 CAS number : 133174-15-9
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 Ltd Telephone : +44 (0) 1225 667 798
	Unit 5 Leafield Way Fax : +44 (0) 2033 978 909
	Corsham SN13 9SW Email : info@glentham.com
	United Kingdom Web : 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 annual
	tonnage does not require a registration or the registration is envisaged for a later registration deadline.
2.	Hazards identification
2.1	Classification of the substance or mixture
2.1	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.
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3.0	Composition/information on ingredients
3.1	Substances
	Product name         :         Fmoc-Cit-OH         MW:         397.42           CAS number         :         133174-15-9         MF :
	CAS humber . 1331/4-13-9 MF .
4.0	First aid measures
4.1	Description of first aid measures
	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
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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.         10 not discharge into drains or rivers.           8.3         Methods and material for containment and dening up         10 most discharge into drains or rivers.           8.4         Refer to section 8 of SDS.         10 most discharge into drains or rivers.           8.4         Refer to section 8 of SDS.         10 most discharge into drains or rivers.           8.5         Refer to section 6 or storage         11 most discharge           7.1         Precading and storage         12 most discharge           7.2         Conditins for asis ha	4.3	
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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 discharge into drains or spiread of dust in the air.         7.1       Precautions for safe handling         Handling equipments       Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.         7.3       Specific end use(a)         No data available.       Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.         7.6	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
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<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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Workplace exposure limits         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	8.0	Exposure controls/personal protection
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
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		Not applicable.
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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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9.0	Physical and chemical properties
.1	Information on basic physical and chemical properties
	Physical Form:
	Colour:
.2	Other information
	Not applicable.
 0.0	Stability and reactivity
0.1	Reactivity
0.2	Chemical stability
	Stable under normal conditions.
0.3	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.
0.5	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.
	Ingestion
	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
	Ecological information
2.0	Ecological information
2.1	Toxicity
2.2	Not applicable. Persistence and degradability
<b>c.</b> <i>L</i>	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.
	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.