

Safety Data Sheet

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According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

1.

Product code	: GS7398
Product name	: Methanol, for HPLC, gradient grade, 99.9%
CAS number	: 67-56-1
EINECS	: 200-659-6
Physical form	: liquid, substance
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.

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 : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H225	Flam. Liq. 2
H301	Acute Tox. 3
H311	Acute Tox. 3
H331	Acute Tox. 3
H370	STOT SE 1

2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

Pictograms



Signal words	Danger
Hazard statements	
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs
Precautionary statements	S
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/
P311	Call a POISON CENTER or doctor/
P261	Avoid breathing vapors.
P241	Use explosion-proof electrical equipment.
P264	Do not breathe fume.
Other hererde	

2.3 Other hazards

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РВТ

This substance is not identified as a PBT substance.

Substances				
Name		Identifier	%	Classification
Methanol, for HPLC	ethanol, for HPLC, gradient grade, 99.9%		99.9%	H225, Flam. Liq. 2 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Acute Tox. 3 H370, STOT SE 1
First aid measures				
Description of first a	id measures			
Skin contact		contaminated clothes a	ind footwear ir	for 10 minutes or longer if substance is nmediately unless stuck to skin. ng.
Eye contact	Consult a doctor. Transfe 15 minutes.	er to hospital for specia	list examinatio	on. Bathe the eye with running water for
Ingestion	unconscious and breathi	ng is OK, place in the r	ecovery positi	alf a litre of water to drink immediately. I on. If unconscious, check for breathing al as soon as possible. Wash out mouth
Inhalation	If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon possible. Consult a doctor.			athing is OK, place in the recovery al respiration if necessary. Remove
Most important sym	otoms and effects, both acu	te and delayed		
Skin contact				y occur at the site of contact. There may or whiteness of the skin in the area of
Eye contact	The eyes may water pro	fusely. There may be ir	ritation and re	dness. There may be severe pain.
Ingestion	Convulsions may occur. There may be soreness			There may be loss of consciousness. . There may be vomiting.
Inhalation	may occur. There may b	e irritation of the throat	with a feeling	milar to those of ingestion. Convulsions of tightness in the chest. There may be n a burning sensation in the throat.
Delayed / immediate effects			•	er long-term exposure. Immediate y be loss of consciousness.

Immediate / special treatment

Do not induce vomiting. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Water spray.

5.2 Special hazards arising from the substance or mixture



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Exposure hazards

Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture. Toxic.

5.3 Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Eliminate all sources of ignition. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Notify the police and fire brigade immediately. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Contain the spillage using bunding. Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up

Clean-up procedures

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks.

6.4 Reference to other sections

Refer to section 8 of SDS.

7. Handling and storage

7.1 Precautions for safe handling

Handling requirements

Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Ensure there is exhaust ventilation of the area. Smoking is forbidden. Use non-sparking tools. Ensure there is sufficient ventilation of the area.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Avoid contact with water or humidity. Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. Store in cool, well ventilated area.

7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Substance (CAS)	Control Parameter	Value	Notes	Source
Methanol (67-56-1)	ol (67-56-1) Long-term Exposure Limit (ppm)		Sk	UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	266		
	Short-term Exposure Limit (ppm)	250		
	Short-term Exposure Limit (mg m ⁻³)	333		
	Long-term Exposure Limit (ppm) 260		skin 200	2006/15/EC
	Long-term Exposure Limit (mg m ⁻³)	200		

8.2 Exposure controls

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GS7398 v2.0

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Engineering measures	Ensure lighting and electrical equipment are not a source of ignition. Ensure there is exhaust ventilation of the area. Ensure there is sufficient ventilation of the area.		
Respiratory protection	Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.		
Hand protection	Impermeable gloves. Protective gloves.		
Eye protection	Ensure eye bath is to hand. Safety glasses with side-shields. Safety glasses.		
Skin protection	Protective clothing.		

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	-97.8 °C
Boiling point/initial boiling point/boiling range	64.7 °C @ Press: 760 Torr
Flammability	Highly flammable liquid and vapour
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	455°C
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	0.810
Relative vapour pressure	No data available.
Particle characteristics	No data available.

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

^{10.2} Chemical stability

Stable at room temperature. Stable under normal conditions.

^{10.3} Possibility of hazardous reactions

Hazardous reactions

Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.

^{10.4} Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

^{10.5} Incompatible materials

Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity Methanol

Page 4 of 7



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24 hr EC50 Algae (Chlorella pyrenoidosa) (Aquatic): 65000-78000 ug/L
4 hr LC50 Rat (Inhalation): 64000 ppm
LD50 Rat (Oral): 5628 mg/kg
LD50 Monkey (Oral): 2-3 g/kg
LD50 Mouse (Oral): 7300 mg/kg
LD50 Rabbit (Oral): 14.4 g/kg
Skin corrosion/irritation
No data available.
Serious eye damage/irritation
No data available.
Respiratory or skin sensitisation
No data available.
Germ cell mutagenicity
No data available.

f) Carcinogenicity No data available.

b)

C)

d)

e)

g) Reproductive toxicity No data available.

h) STOT-single exposure

Specific target organ toxicity, single exposure (Category 1)

i) STOT-repeated exposure

No data available.

J) Aspiration hazardNo data available.

11.2 Symptoms / routes of exposure

Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.
Eye contact	The eyes may water profusely. There may be irritation and redness. There may be severe pain.
Ingestion	Convulsions may occur. There may be irritation of the throat. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Convulsions may occur. Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.
Other information	No data available.

12. Ecological information

^{12.1} Toxicity

24 hr EC50 Algae (Chlorella fusca var. vacuolata): 0.77 umol/L

24 hr EC50 Algae (Chlorella pyrenoidosa): 6 umol/L

48 hr EC50 Algae (Pseudokirchneriella subcapitata): 3010 ug/L

48 hr EC50 Algae (Pseudokirchneriella subcapitata): 60400 ug/L

^{12.2} Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil



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Readily absorbed into so					
5 Results of PBT and vPvB assessment					
	entified as a PBT substance	ce.			
Endocrine disrupting pro	-				
This substance is not ide	entified as having endocrin	ne disrupting properties			
Other adverse effects					
No data available.					
Disposal considerations					
Waste treatment method	ls				
Disposal operations					
	ntainer and arrange for co	llection by specialised dis	posal company.		
NB		, , , , ,			
The user's attention is dr	awn to the possible existe	ence of regional or national	ai regulations regarding di	sposal.	
Transport information					
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number					
UN1230	UN1230	UN1230	UN1230	UN1230	
14.2. UN proper shipping nar	ne				
METHANOL	METHANOL	Methanol	METHANOL	METHANOL	
Transport document descrip	tion				
UN1230	UN1230	UN1230 Methanol, 3	UN1230	UN1230	
METHANOL, 3 (6.1), II	METHANOL, 3 (6.1), II	(6.1), II	METHANOL, 3 (6.1), II	METHANOL, 3 (6.1) II	
"	"		"	"	
14.3. Transport hazard class	(es)				
3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)	
	3	3 6	3	3	
14.4. Packing group	5	3		3	
14.4. Packing group	1	11			
		II	II	II	
		II No	II No	II No	
II 14.5. Environmental hazards					

Safety, health and environmental regulations/legislation specific for the substance or mixture This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

Authorisations/Restrictions

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Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:	No data available.
Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances:	20 Apr 2018, Entry No.: 69
Regulation (EC) 1005/2009 on substances that deplete the ozone layer:	No data available.
Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021:	No data available.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16. Other information

H-Statement Full Texts

H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs

Abbreviations Full Texts

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ALARP	As low as is reasonably practicable
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulations
COSHH	Control of Substances Hazardous to Health
EC Number	European Community Number
EC50	Effective Concentration 50%
EILINCS	European List of Notified Chemical Substances
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System
HSE	Health & Safety Executive UK
IATA	International Air Transport Association
IM	Intramuscular
IMDG	The International Maritime Dangerous Goods Code
IP	Intraperitoneal
IV	Intravascular
LD50	Lethal Dose 50%
LOEC	Lowest Observable Effective Concentration
LTEL	Long Term Exposure Limit
NOEC	No Observable Effective Concentration
OECD	Organisation for Economic Cooperations and Development
PBT	Persistent Bioaccumulative Toxic
PPE	Personal Protective Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC	Subcutaneous
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

Disclaimer: Glentham Life Sciences shall not be held liable for any damage resulting from handling or from contact with the above product. 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 document does not guarantee the properties or quality of the product.