GX7093 v2.0



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.

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Product code	: GX7093
Product name	: Dimethyl carbonate
CAS number	: 616-38-6
EINECS	: 210-478-4
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

: 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
	Unit 5 Leafield Way Corsham SN13 9SW	Unit 5 Leafield Way Fax Corsham SN13 9SW Email	Unit 5 Leafield Way Fax : Corsham SN13 9SW Email :

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

2.2 Label elements

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

Pictograms



Signal words Hazard statements	Danger	
H225	Highly flammable liquid and vapour	
Precautionary statements		
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P241	Use explosion-proof electrical equipment.	
Other hazards		
PBT		
This substance is not identifie	This substance is not identified as a PBT substance.	

3.0 Composition/information on ingredients

3.1 Substances

2.3

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4. 4.1

4.2

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Name		Identifier	%	Classification
Dimethyl carbonate	,	CAS: 616-38-6 EC: 210-478-4 REACH: Not applicable	99.0%	H225, Flam. Liq. 2
irst aid measures				
escription of first a	id measures			
Skin contact			•	for 10 minutes or longer if substance is nmediately unless stuck to skin.
Eye contact	Consult a doctor. Bathe the eye with running water for 15 minutes.			
Ingestion	Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately.			
Inhalation	Remove casualty from ex	xposure ensuring one's	s own safety w	hilst doing so. Consult a doctor.
lost important sym	ptoms and effects, both acu	te 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.			
	There may be irritation of the throat with a feeling of tightness in the chest.			
Inhalation	There may be irritation of	f the throat with a feelir	ng of tightness	in the chest.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting.

5. Fire-fighting measures

5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Water spray.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

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

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

Eliminate all sources of ignition. Notify the police and fire brigade immediately. 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

Clean-up procedures

Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4 Reference to other sections

Refer to section 8 of SDS.

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7. Handling and storage

7.1 Precautions for safe handling

Handling requirements

Avoid the formation or spread of dust in the air. 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

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

No workplace exposure limit control parameters set

8.2 Exposure controls

9.1

Engineering measures	Ensure lighting and electrical equipment are not a source of ignition. Ensure there is sufficient ventilation of the area.
Respiratory protection	Respiratory protective device with particle filter.
Hand protection	Protective gloves.
Eye protection	Ensure eye bath is to hand. Safety glasses.
Skin protection	Protective clothing.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	0.5 °C
Boiling point/initial boiling point/boiling range	90-91 °C
Flammability	Highly flammable
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	458°C
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	114.7 - 138.2 g/L @ 20 - 25 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	1.064
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



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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 No data available.
- b) Skin corrosion/irritation No data available.
- c) Serious eye damage/irritation No data available.
- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity
- No data available.f) Carcinogenicity
- No data available.
- g) Reproductive toxicity No data available.
- h) STOT-single exposure No data available.

i) STOT-repeated exposure No data available.

- j) Aspiration hazard
 - No data available.

11.2 Symptoms / routes of exposure

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	Delayed effects can be expected after long-term exposure.
Other information	No data available.
Ecological informatio	n

^{12.1} Toxicity

12.

No data available.

12.2 Persistence and degradability

Biodegradable.

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Bioaccumulative potent					
-					
No bioaccumulation pote	ential.				
Mobility in soil					
Readily absorbed into so	bil.				
Results of PBT and vPv					
	entified as a PBT substan	ce.			
Endocrine disrupting pr					
	entified as having endocri	ne disrupting properties			
Other adverse effects					
No data available.					
Disposal considerations	;				
Waste treatment method	ls				
Disposal operations					
	ntainer and arrange for co	pliection by specialised dis	sposal company.		
NB The user's attention is du	rawn to the possible evict	ence of regional or nation	al regulations regarding di	isposal	
Transport information					
manoport mornation					
ADR	IMDG	IATA	ADN	RID	
	IMDG	IATA	ADN	RID	
ADR	IMDG UN1161	IATA UN1161	ADN UN1161	RID UN1161	
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15. Regulatory information

15.1 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:	No data available.
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

H225

H-Statement Full Texts

Highly flammable liquid and vapour

Abbreviations Full Texts

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

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