

Safety Data Sheet

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

1.	Identification of the substance/mixture and of the company/undertaking					
1.1	Product identifier					
	Product code Product name CAS number EINECS Physical form	 GS4017 Diethyl Ether, GlenPure[™], analytical grade stabilised with BHT 60-29-7 200-467-2 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

H224	Flam. Liq. 1
H302	Acute Tox. 4
H335	STOT SE 3
H336	STOT SE 3

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H224	Extremely flammable liquid and vapour
H302	Harmful if swallowed
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
EUH019	May form explosive peroxides.
EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary stateme	nts
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or
	shower].
P264	Do not breathe fume.
P241	Use explosion-proof electrical equipment.
Other hererde	

2.3 Other hazards



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РВТ

This substance is not identified as a PBT substance.

3.1 Substances

Name	Identifier	%	Classification
Diethyl Ether, GlenPure™, analytical grade stabilised with BHT	CAS: 60-29-7 EC: 200-467-2 REACH: Not applicable		H224, Flam. Liq. 1 H302, Acute Tox. 4 H335, STOT SE 3 H336, STOT SE 3

4. First aid measures

4.1 Description of first aid measures

Skin contact	Consult a doctor. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
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. Transfer to hospital as soon as possible. Wash out mouth with water.
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact	There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	The eyes may water profusely. There may be irritation and redness. There may be pain and redness.
Ingestion	Nausea and stomach pain may occur. There may be difficulty swallowing. There may be irritation of the throat. 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. Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be vomiting.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting. Eye bathing equipment should be available on the premises.

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. 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

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6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not create dust. 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. 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.

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. Do not handle in a confined space. 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
Diethylether (60-29-7)	Long-term Exposure Limit (ppm)	308		2000/39/EC
	Long-term Exposure Limit (mg m ⁻³)	100		
	Short-term Exposure Limit (ppm)	616		
	Short-term Exposure Limit (mg m ⁻³)	200		
	Long-term Exposure Limit (ppm)	100		UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	310		
	Short-term Exposure Limit (ppm)	200		
	Short-term Exposure Limit (mg m ⁻³)	620		

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	Short-term Exposure Limit (ppm)	200	
	Short-term Exposure Limit (mg m ⁻³)	620	

8.2 Exposure controls

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. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Protective gloves.
Eye protection	Ensure eye bath is to hand. 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	-116 °C
Boiling point/initial boiling point/boiling range	2.2 °C @ Press: 200 Torr
Flammability	Extremely flammable liquid and vapour
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	175°C
Decomposition temperature	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	64.9 g/L @ 20 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	0.713
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



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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.

Incompatible materials

Materials to avoid

10.5

Carbon dioxide. Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

Diethylether

14 d LC50 Guppy (Poecilia reticulata) (Aquatic): 2134 mg/L 90 min LC50 Mouse (Inhalation): 186 mg/L LD50 Mouse (IP): 2420 mg/kg LD50 Mouse (IV): 9963 mg/kg

Diethyl ether

14 d LC50 Guppy (Poecilia reticulata) (Aquatic): 2134 mg/L 90 min LC50 Mouse (Inhalation): 186 mg/L LD50 Mouse (IP): 2420 mg/kg LD50 Mouse (IV): 9963 mg/kg

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

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

i) STOT-repeated exposure

No data available.

j) Aspiration hazard

No data available.

11.2 Symptoms / routes of exposure

Skin contact	There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	The eyes may water profusely. There may be irritation and redness. There may be pain and redness.
Ingestion	Nausea and stomach pain may occur. There may be difficulty swallowing. There may be irritation of the throat. 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. Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be vomiting.

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effects	short-term exposure. Na		exposure. Immediate effec may occur.	ts can be expected aft
Other information	No data available.			
Ecological informatio	n			
Toxicity				
No data available.				
Persistence and degra	adability			
Biodegradable.				
Bioaccumulative pote	ential			
No bioaccumulation p	otential.			
Mobility in soil				
Readily absorbed into	soil.			
Results of PBT and vi	PvB assessment			
This substance is not	identified as a PBT substar	nce.		
Endocrine disrupting	properties			
This substance is not	identified as having endocr	ine disrupting properties		
Other adverse effects				
No data available.				
Disposal consideratio	ons			
Waste treatment meth	nods			
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Νο	No	No	Νο	Νο
Regulatory inform	mation			
afety, health and en	vironmental regulations/legisla	tion specific for the substance	or mixture	
his Safety Data Regulation (EU)∷		ordance with Commissio	n Regulation (EC) 1907	/2006, amended by Commission
uthorisations/Restr	ctions			
Regulation (E) authorisation:	C) 1907/2006, REACH, A	nnex XIV list of substand	ces subject to	No data available.
	C) 1907/2006, REACH, A and use of certain dange		the manufacture, placi	ng No data available.
Regulation (E	C) 1005/2009 on substan	ces that deplete the ozor	ne layer:	No data available.
Regulation (E 2019/1021:	C) 850/2004 on persisten	t organic pollutants, ame	nded by (EU) No	No data available.
chemical safety asse	ssment			
A chemical safet	y assessment has not be	en carried out for the sub	ostance or the mixture by	y the supplier.
Other informatio	n			
I-Statement Full	Texts			
H224	Extremely flammable I	liquid and vapour		
H302	Harmful if swallowed			
H335	May cause respiratory	rirritation		
H336	May cause drowsines			
Abbreviations Fu	•			
ADN	European Agreement	concerning the Internatio	onal Carriage of Danger	ous Goods by Inland Waterways
ADR		concerning the Internatio		
ALARP	As low as is reasonab		fial Garnage of Danger	
CAS	Chemical Abstracts Se			
CLP		ig and Packaging Regula	ations	
COSHH	Control of Substances		110113	
EC Number	European Community			
EC50	Effective Concentratio			
EILINCS		ied Chemical Substances		
	•			
EINECS		f Existing Commercial Ch	iemical Substances	
GHS HSE	Globally Harmonised	5		
	Health & Safety Execu			
IATA	International Air Trans	port Association		
	Intramuscular The International Mari	timo Dongorous Cood- (Codo	
		time Dangerous Goods (Joue	
IP	Intraperitoneal			
IV	Intravascular			
LD50	Lethal Dose 50% Lowest Observable Ef	Faativa Concentration		
LTEL	Long Term Exposure I			
NOEC	No Observable Effection		Development.	
OECD		omic Cooperations and E	Development	
PBT	Persistent Bioaccumul			
PPE	Personal Protective Ed		atriation of Obarriant	
REACH		on, Authorisation and Res		
RID	0	ng the International Carri	age of Dangerous Good	is by Rail
SC	Subcutaneous			
SDS	Safety Data Sheet			
STEL	Short Term Exposure			
VOC	Volatile Organic Comp	pounds		
vPvB	Very Persistent and Very	ery Bioaccumulative		



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

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