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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 : GS5963

Product name : Diethyl Ether, GlenDry™, anhydrous stabilised with BHT over molecular sieve

CAS number : 60-29-7
EINECS : 200-467-2
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

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** 





011002

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 statements** 

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.

2.3 Other hazards

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### PB1

This substance is not identified as a PBT substance.

### 3.0 Composition/information on ingredients

### 3.1 Substances

Name	Identifier	%	Classification
Diethyl Ether, GlenDry™, anhydrous stabilised with BHT over molecular sieve	CAS: 60-29-7 EC: 200-467-2 REACH: Not applicable	99.9%	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 mild irritation at the site of contact.
Eye contact	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. 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.

### 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

### 6.1 Personal precautions, protective equipment and emergency procedures

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### Personal precautions

Do not create dust. Eliminate all sources of ignition. If outside do not approach from downwind. 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. 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.

Workplace exposure limits

### 8. Exposure controls/personal protection

### 8.1 Control parameters

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 <sup>-3</sup> )	100		
	Short-term Exposure Limit (ppm)	616		
	Short-term Exposure Limit (mg m <sup>-3</sup> )	200		
	Long-term Exposure Limit (ppm)	100		UK HSE EH40/2005
	Long-term Exposure Limit (mg m <sup>-3</sup> )	310		
	Short-term Exposure Limit (ppm)	200		
	Short-term Exposure Limit (mg m <sup>-3</sup> )	620		

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	Short-term Exposure Limit (ppm)	200	
	Short-term Exposure Limit (mg m <sup>-3</sup> )	620	

#### **Exposure controls** 8.2

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

#### 9.1 Information on basic physical and chemical properties

Physical state Liquid Colour Colourless Odour Melting point/Freezing point -116 °C

Boiling point/initial boiling point/boiling range

Flammability

Lower/Upper explosion limit

Flash Point

Auto-ignition temperature

Decomposition temperature

Kinematic viscosity

Solubility

Partition coefficient n-octanol/water

Vapour pressure Density/relative density

Relative vapour pressure Particle characteristics

No data available.

2.2 °C @ Press: 200 Torr

Extremely flammable liquid and vapour

No data available. No data available.

175°C

No data available. No data available. No data available. 64.9 g/L @ 20 °C No data available. No data available.

0.713

No data available. No data available.

### 9.2 Other information

No data available.

### Stability and reactivity 10.

#### 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.

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### 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

### 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

2200 Modes (17): 0000 H

### 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 mild irritation at the site of contact.
Eye contact	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. 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.
Other information	No data available.

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## 12. Ecological information

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

Biodegradable.

## 12.3 Bioaccumulative potential

No bioaccumulation potential.

### 12.4 Mobility in soil

Readily absorbed into soil.

### 12.5 Results of PBT and vPvB assessment

This substance is not identified as a PBT substance.

### 12.6 Endocrine disrupting properties

This substance is not identified as having endocrine disrupting properties

### 12.7 Other adverse effects

No data available.

### 13. 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. Transport information

ADR	IMDG	IATA	ADN	RID		
14.1. UN number						
UN1155	UN1155	UN1155	UN1155	UN1155		
14.2. UN proper shipping na	14.2. UN proper shipping name					
DIETHYL ETHER						
Transport document descri	ption					
UN1155 DIETHYL ETHER, 3, I						
14.3. Transport hazard clas	s(es)					
3	3	3	3	3		
14.4. Packing group						
I	I	I	I	I		
14.5. Environmental hazards						
No	No	No	No	No		

### 15. Regulatory information



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#### 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.

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to

No data available.

authorisation:

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing No data available.

on the market and use of certain dangerous substances:

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 No data available.

2019/1021:

### 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**

H224 Extremely flammable liquid and vapour

H302 Harmful if swallowed

H335 May cause respiratory irritation H336 May cause drowsiness or dizziness

### **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

European Community Number **EC Number** EC50 Effective Concentration 50%

**EILINCS** European List of Notified Chemical Substances

**EINECS** European Inventory of Existing Commercial Chemical Substances

**GHS** Globally Harmonised System **HSF** Health & Safety Executive UK IATA International Air Transport Association

IM Intramuscular

**IMDG** The International Maritime Dangerous Goods Code

IΡ Intraperitoneal IV Intravascular LD50 Lethal Dose 50%

LOEC Lowest Observable Effective Concentration

Long Term Exposure Limit LTEL

NOEC No Observable Effective Concentration

OECD Organisation for Economic Cooperations and Development

Persistent Bioaccumulative Toxic **PBT** PPE Personal Protective Equipment

Registration, Evaluation, Authorisation and Restriction of Chemicals REACH

Regulations Concerning the International Carriage of Dangerous Goods by Rail RID

SC Subcutaneous SDS Safety Data Sheet STEL Short Term Exposure Limit Volatile Organic Compounds VOC

vPvB Very Persistent and Very Bioaccumulative

WFI 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.

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