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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 : GK5426 Product name : Diphenyl ether CAS number : 101-84-8 **EINECS** : 202-981-2 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.

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)

1.3

Hazards identification 2.

2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H319 Eye Irr. 2A H411 Aquatic Chronic 2

2.2 Label elements

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

Pictograms





Signal words Warning

Hazard statements

H319 Causes serious eye irritation

H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do - continue rinsing.

2.3 Other hazards

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

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Name	ldentifier	%	Classification
Diphenyl ether	CAS: 101-84-8 EC: 202-981-2 REACH: Not applicable	99.0%	H319, Eye Irr. 2A H411, Aquatic Chronic 2

4. First aid measures

4.1 Description of first aid measures

Skin contact	Consult a doctor. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact	Consult a doctor. Transfer to hospital for specialist examination. 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. 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	May cause permanent damage. The eyes may water profusely. The vision may become blurred. There may be irritation and redness. There may be pain and redness. There may be severe pain.				
Ingestion	Nausea and stomach pain may occur. There may be irritation of the throat. There may be soreness and redness of the mouth and throat.				
Inhalation	Nausea and stomach pain may occur. 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. 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

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

In combustion emits toxic fumes.

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. Do not create dust. Mark out the contaminated area with signs and prevent access to unauthorised personnel. 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

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Clean-up procedures

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

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 sufficient ventilation of the area

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Avoid contact with water or humidity. Keep container tightly closed. 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
Diphenyl ether (101-84-8)	Long-term Exposure Limit (ppm)	7		(EU) 2017/164
	Long-term Exposure Limit (mg m ⁻³)	1		
	Short-term Exposure Limit (ppm)	14		
	Short-term Exposure Limit (mg m ⁻³)	2		
	Long-term Exposure Limit (ppm)	1		UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	7		
	Short-term Exposure Limit (ppm)	2		
	Short-term Exposure Limit (mg m ⁻³)	14		

8.2 Exposure controls

Engineering measures	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	Tightly fitting safety goggles. 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 White

Odour No data available.

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GK5426 v2.0



Safety Data Sheet

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Melting point/Freezing point

Boiling point/initial boiling point/boiling range

Flammability

Lower/Upper explosion limit

Flash Point

Auto-ignition temperature Decomposition temperature

рH

Kinematic viscosity

Solubility

Partition coefficient n-octanol/water

Vapour pressure Density/relative density Relative vapour pressure Particle characteristics 618°C No data available. No data available. No data available. 18 mg/L @ 25 °C No data available. No data available.

No data available.

No data available.

No data available.

1.080

27 °C 259 °C

No data available. 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 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

Heat.

10.5 Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

Diphenyl ether

LD50 Rat (Oral): 3.99 g/kg LD50 Guinea pig (Oral): 4 g/kg LD50 Rat (Oral): 2830 mg/kg

b) Skin corrosion/irritation

No data available.

c) Serious eye damage/irritation

Serious eye damage/eye irritation (Category 2A)

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

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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	May cause permanent damage. The eyes may water profusely. The vision may become blurred. There may be irritation and redness. There may be pain and redness. There may be severe pain.
Ingestion	Nausea and stomach pain may occur. There may be irritation of the throat. There may be soreness and redness of the mouth and throat.
Inhalation	Nausea and stomach pain may occur. 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. Nausea and stomach pain may occur.
Other information	No data available.

12. Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

Not biodegradable.

12.3 Bioaccumulative potential

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.

NΒ

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				
UN3077	UN3077	UN3077	UN3077	UN3077

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14.2. U	IN	proper	sh	ipp	ing	name
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ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S. ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S. Environmentally hazardous substance, solid, n.o.s.

ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S. ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport document description

UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIPHENYL ETHER), 9, III UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIPHENYL ETHER), 9. III

UN3077 Environmentally hazardous substance, solid, n.o.s. (Diphenyl ether), 9, III UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIPHENYL ETHER), 9, III UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIPHENYL ETHER), 9, III

14.3. Transport hazard class(es)

9

9

9

9

9











14.4. Packing group

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14.5. Environmental hazards



Dangerous for the Environment: yes



Dangerous for the Environment: yes



Dangerous for the Environment: yes



Dangerous for the Environment: yes



Dangerous for the Environment: yes

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

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 No data available on the market and use of certain dangerous substances:

Regulation (EC) 1005/2009 on substances that deplete the ozone layer: Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021:

No data available.

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

H319 Causes serious eye irritation

H411 Toxic to aquatic life with long lasting effects

Abbreviations Full Texts





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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
STOT Specific Target Organ Toxicity
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.

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