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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 : GL5728
Product name : Paraoxon-ethyl
CAS number : 311-45-5
EINECS : 206-221-0
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

H300 Acute Tox. 1
H310 Acute Tox. 1
H400 Aquatic Acute 1
H410 Aquatic Chronic 1

#### 2.2 Label elements

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

**Pictograms** 



GHS06 GHS09

Signal words Danger

**Hazard statements** 

H300 Fatal if swallowed
H310 Fatal in contact with skin
H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

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

P301+P310a IF SWALLOWED: Immediately call a POISON CENTER.

P302+P352 IF ON SKIN: wash with plenty of water.

P310 Immediately call a POISON CENTER or doctor.

P264 Wash face, hands and any exposed skin thoroughly after handling.

2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

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#### 3.0 Composition/information on ingredients

#### 3.1 Substances

Name	Identifier	%	Classification
Paraoxon-ethyl	CAS: 311-45-5 EC: 206-221-0 REACH: Not applicable	95.0%	H300, Acute Tox. 1 H310, Acute Tox. 1 H400, Aquatic Acute 1 H410, Aquatic Chronic 1

#### 4. First aid measures

#### 4.1 Description of first aid measures

Skin contact	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. Transfer to hospital if there are burns or symptoms of poisoning.			
Eye contact	Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.			
Ingestion	Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible. Wash out mouth with water.			
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. Transfer to hospital as soon as possible. Remove casualty from exposure ensuring one's own safety whilst doing so.			

### 4.2 Most important symptoms and effects, both acute and delayed

Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur 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 severe pain.		
Ingestion	Convulsions may occur. 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 loss of consciousness. There may be shortness of breath with a burning sensation in the throat.		
Delayed / immediate	Immediate effects can be expected after short-term exposure.		

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Immediate / special treatment

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

### 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. 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

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#### Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. 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.

#### 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-un 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.

#### 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.

#### 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

No workplace exposure limit control parameters set

#### 8.2 Exposure controls

Engineering measures	Ensure there is exhaust ventilation of the area.
Respiratory protection	Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Impermeable gloves.
Eye protection	Safety glasses with side-shields. Ensure eye bath is to hand.
Skin protection	Protective clothing.

Liquid

## 9. Physical and chemical properties

Physical state

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

Colour	Yellow
Odour	No data available.
Melting point/Freezing point	No data available.
Boiling point/initial boiling point/boiling range	173°C /0.13kPa
Flammability	No data available.
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
На	No data available

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GL5728 v3.0



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Kinematic viscosity

Solubility

Partition coefficient n-octanol/water

Vapour pressure Density/relative density Relative vapour pressure Particle characteristics No data available. No data available. No data available. No data available. 1.27 g/cm3 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

Flames. Hot surfaces. 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

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.

Symptoms / routes of exposure

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Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur 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 severe pain.			
Ingestion	Convulsions may occur. 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 loss of consciousness. There may be shortness of breath with a burning sensation in the throat.			
Delayed / immediate effects	Immediate effects can be expected after short-term exposure.			
Other information	No data available.			

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.

#### 11.2.2 Other information

No additional information

#### 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.

NE

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				
UN2810	UN2810	UN2810	UN2810	UN2810

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14.2. UN proper shipping nan	me			
TOXIC LIQUID, ORGANIC, N.O.S.	TOXIC LIQUID, ORGANIC, N.O.S.	Toxic liquid, organic, n.o.s.	TOXIC LIQUID, ORGANIC, N.O.S.	TOXIC LIQUID, ORGANIC, N.O.S.
Transport document descript	tion			
UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (PARAOXON- ETHYL), 6.1, I	UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (PARAOXON- ETHYL), 6.1, I	UN2810 Toxic liquid, organic, n.o.s. (Paraoxon-ethyl), 6.1, I	UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (PARAOXON- ETHYL), 6.1, I	UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (PARAOXON- ETHYL), 6.1, I
14.3. Transport hazard class(	(es)			
6.1	6.1	6.1	6.1	6.1
	6	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		
14.4. Packing group				
I	I	I	I	I
14.5. Environmental hazards				
No	No	No	No	No

#### 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) 2020/878.

#### Authorisations/Restrictions

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

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:

#### 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**

H300 Fatal if swallowed
H310 Fatal in contact with skin
H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

#### **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

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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) 2020/878.

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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