

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 Physical form REACH	 GE8076 Ethyl viologen diperchlorate, 99% 36305-51-8 solid, substance 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	Relevant identified uses of the substance or mixture and uses advised against			
	PC21: Laboratory chemicals.				
1.3	Details of the suppli	ier of the safety data sheet			
	Company name	: Glentham Life Sciences LtdTelephone: +44 (0) 1225 667 798Unit 5 Leafield WayFax: +44 (0) 2033 978 909Corsham SN13 9SWEmail: info@glentham.comUnited KingdomWeb: www.glentham.com			
1.4 Emergency telephone number		ne number			
	Emergency telephor number	ne : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)			
2.	Hazards identification	on			
2.1					
	Classification under CLP according to (EC) 1272/2008				
	H302	Acute Tox. 4			
	H312	Acute Tox. 4			
	H332	Acute Tox. 4			
2.2	Label elements				
	Label elements under CL	P according to (EC) 1272/2008			
	Pictograms	GHS07			
	Signal words Hazard statements	Warning			
	H302	Harmful if swallowed			

H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
Precautionary stateme	nts
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.
P302+P352	IF ON SKIN: wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P264	Do not breathe fume.
Other hazards	
РВТ	
This substance is not ide	entified as a PBT substance.

Composition/information on ingredients 3.0

2.3

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3.1 Substances

Name	Identifier	%	Classification
Ethyl viologen diperchlorate, 99%	CAS: 36305-51-8 EC: REACH: Not applicable	99.0%	H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Acute Tox. 4

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.
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. Wash out mouth with water.
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. 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.		
Eye contact	The eyes may water profusely. There may be pain and redness.		
Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.		
Inhalation	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	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

Suitable extinguishing media for the surrounding fire should be used.

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

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. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Do not discharge into drains or rivers.

Methods and material for containment and cleaning up

Clean-up procedures

6.3



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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. Do not handle in a confined space. 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

No workplace exposure limit control parameters set

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	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	Solid
Colour	White
Odour	No data available.
Melting point/Freezing point	$267^{\circ}C \rightarrow 273^{\circ}C$
Boiling point/initial boiling point/boiling range	No data available.
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.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	No data available.
Relative vapour pressure	No data available.
Particle characteristics	No data available.
they information	

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity



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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

Acute toxicity

a)

b)

No data available. 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.

Aspiration hazardNo data available.

11.2 Symptoms / routes of exposure

Skin contact	There may be irritation and redness at the site of contact.		
Eye contact	The eyes may water profusely. There may be pain and redness.		
Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.		
Inhalation	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	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.		
Other information	No data available.		
Ecological information			

^{12.1} Toxicity

12.

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- 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

This product does not require a classification for transport.

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 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
 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

Α

H-Statement Full Texts

A-Statement Full	1-Statement Full Texts				
H302	Harmful if swallowed				
H312	Harmful in contact with skin				
H332	Harmful if inhaled				
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 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL VOC	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 Short Term Exposure Limit Volatile Organic Compounds
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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.