GP9683 v2.0



Safety Data Sheet

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

Identification of	the aubetenee/	mixture and	of the com	pany/undertaking
identification of	the substance/	mixture and	or the com	pany/undertaking

1.1 Product identifier

1.

Product code	: GP9683
Product name	: Estradiol
CAS number	: 50-28-2
EINECS	: 200-023-8
Physical form	: solid, 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			
H351	Carc. 2		
H360	Repr. 1A		
H362	Lact.		

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H362	May cause harm to breast-fed children
Precautionary statements	
P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P263	Avoid contact during pregnancy/while nursing.
P281	Use personal protective equipment as required.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P264	Do not breathe fume.
Other hazards	
PBT	

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

2.3

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3.1 Substances

Name	ldentifier	%	Classification
Estradiol	CAS: 50-28-2 EC: 200-023-8 REACH: Not applicable	97.0%	H351, Carc. 2 H360, Repr. 1A H362, Lact.

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 irritation 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. Use water spray to cool containers.

Special hazards arising from the substance or mixture

Exposure hazards

5.2

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 create dust. 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.

6.3 Methods and material for containment and cleaning up

Clean-up procedures

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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.

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

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Physical state	Solid
Colour	White
Odour	No data available.
Melting point/Freezing point	170 °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	1.5 mg/L @ 20 °C
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.
ther information	

9.2 Other information

No data available.

10. Stability and reactivity

GP9683 v2.0



Safety Data Sheet

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10.1	Reactivity	
	Stable under recomme	nded transport or storage conditions.
10.2	Chemical stability	
	Stable under normal co	onditions.
10.3	Possibility of hazardou	us reactions
	Hazardous reactions	
	Decomposition may oc transport or storage co	cur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal nditions.
10.4	Conditions to avoid	
	Heat.	
10.5	Incompatible materials	
	Materials to avoid	
	Strong acids. Strong ox	xidising agents.
11.	Toxicological informat	ion
11.1	Information on toxicol	ogical effects
a)	Acute toxicity	
b)	No data available.	
b)	Skin corrosion/irritatio No data available.	
c)	Serious eye damage/ir	ritation
	No data available.	
d)	Respiratory or skin se	nsitisation
0)	No data available.	
e)	Germ cell mutagenicity No data available.	y .
f)	Carcinogenicity	
	No data available.	
g)	Reproductive toxicity	
b)	Reproductive toxicity (0	
h)	STOT-single exposure No data available.	
i)	STOT-repeated exposu	ILE
	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.
	Eye contact	The eyes may water profusely. There may be irritation 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.
12.	Ecological information	

GP9683 v2.0

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12.1	Toxicity				
	No data availab	le.			
12.2	Persistence an	d degradability			
	Biodegradable.				
12.3	Bioaccumulativ	ve potential			
	No bioaccumula	ation potential.			
12.4	Mobility in soil				
	Readily absorb	ed into soil.			
12.5	Results of PBT	and vPvB assessment			
	This substance	is not identified as a PBT substance.			
12.6	Endocrine disr	upting properties			
	This substance	is not identified as having endocrine disrupting properties			
12.7	Other adverse	Other adverse effects			
	No data availab	le.			
13.	Disposal consi	derations			
13.1	Waste treatmer	nt methods			
	Disposal operations				
	Transfer to a suitable container and arrange for collection by specialised disposal company.				
	NB				
	The user's atter	ntion is drawn to the possible existence of regional or national regulations	regarding disposal.		
14.	Transport infor	mation			
	This product do	es not require a classification for transport.			
15.	Regulatory info	ormation			
15.1	Safety, health and o	environmental regulations/legislation specific for the substance or mixture			
This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended b Regulation (EU) 2020/787.)7/2006, amended by Commission			
	Authorisations/Res	trictions			
	Regulation (l authorisatior	EC) 1907/2006, REACH, Annex XIV list of substances subject to n:	No data available.		
		EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placet et and use of certain dangerous substances:	cing No data available.		
	Regulation (EC) 1005/2009 on substances that deplete the ozone layer:	No data available.		
	Regulation (l 2019/1021:	EC) 850/2004 on persistent organic pollutants, amended by (EU) No	No data available.		
15.2	Chemical safety as	sessment			
	A chemical safe	ety assessment has not been carried out for the substance or the mixture	by the supplier.		
16.	Other informati	on			
H-Statement Full Texts		III Texts			
	H351 H360	Suspected of causing cancer May damage fertility or the unborn child			

- H360 May damage fertility or the unborn child
- H362 May cause harm to breast-fed children

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
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.