GP3789 v2.0



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

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

1.

Product code	: GP3789
Product name	: Melphalan, USP grade
CAS number	: 148-82-3
EINECS	: 205-726-3
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

H300	Acute Tox. 2
H310	Acute Tox. 2
H330	Acute Tox. 1
H350	Carc. 1B
H361	Repr. 2

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H300	Fatal if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
Precautionary statements	
P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] Wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/
P302+P350	IF ON SKIN: Gently wash with plenty of soap and 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.
P308+P313	IF exposed or concerned: Get medical advice/attention.



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P310 P264

Immediately call a POISON CENTER or doctor/physician. Do not breathe fume.

2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification		
Melphalan, USP grade	CAS: 148-82-3 EC: 205-726-3 REACH: Not applicable	94.0%	H300, Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 1 H350, Carc. 1B H361, Repr. 2		

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. If unconscious, check for breathing and apply artificial respiration if necessary. 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. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.

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. There may be vomiting.
Delayed / immediate effects	Convulsions may occur. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting. 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



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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

Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Evacuate the area immediately. 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.

6.2 Environmental precautions

Alert the neighbourhood to the presence of fumes or gas. Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up

Clean-up 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	Particle filter class P1 (EN143). Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Impermeable gloves. Protective gloves.
Eye protection	Ensure eye bath is to hand. Safety glasses with side-shields.
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.

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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 pH Kinematic viscosity Solubility Partition coefficient n-octanol/water Vapour pressure Density/relative density Relative vapour pressure Partiele characteristice	182-183 °C (decomp) No data available. No data available.
Particle characteristics	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
- Acute toxicity a) 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 Carcinogenicity (Category 1B)
- g) **Reproductive toxicity** Reproductive toxicity (Category 2)
- h) STOT-single exposure No data available.
- i) STOT-repeated exposure



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No data available.

j) Aspiration hazard

No data available.

11.2 Symptoms / routes of exposure

Skin contact		h the skin may be fatal. Ir teness of the skin in the a		at the site of contact. There may		
Eye contact	The eyes may wat	ter profusely. There may l	pe severe pain.			
Ingestion		onvulsions may occur. There may be loss of consciousness. There may be soreness and redness f the mouth and throat. There may be vomiting.				
Inhalation	may occur. There		ness. There may be shor	those of ingestion. Convulsions tness of breath with a burning		
Delayed / immediate effects	Convulsions may o loss of consciousn		can be expected after sho	ort-term exposure. There may be		
Other information	No data available.					
Ecological information	on					
Toxicity						
No data available.						
Persistence and deg	radability					
Biodegradable.						
Bioaccumulative pote	ential					
No bioaccumulation p	ootential.					
Mobility in soil						
Readily absorbed into	o soil.					
Results of PBT and v	/PvB assessment					
This substance is not	identified as a PBT s	substance.				
Endocrine disrupting	J properties					
This substance is not	identified as having ϵ	endocrine disrupting prop	erties			
Other adverse effects	5					
No data available.						
Disposal consideration	ons					
Waste treatment met	hods					
Disposal operations						
	container and arrang	ge for collection by specia	lised disposal company.			
NB	o drown to the need the	le ovietence of region of a	e notional regulations	arding diapood		
i ne user s attention is	s urawn to the possibl	le existence of regional o	nauonal regulations rega	arung disposal.		
Transport information	n					
ADR	IMDG	ΙΑΤΑ	ADN	RID		

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14.2. UN proper shipping na	me			
TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	Toxic solid, organic, n.o.s.	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.
Transport document descrip	tion			
UN2811 TOXIC SOLID, ORGANIC, N.O.S. (MELPHALAN, USP GRADE), 6.1, II	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (MELPHALAN, USP GRADE), 6.1, II	UN2811 Toxic solid, organic, n.o.s. (Melphalan, USP grade), 6.1, II	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (MELPHALAN, USP GRADE), 6.1, II	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (MELPHALAN, USF GRADE), 6.1, II
14.3. Transport hazard class	(es)			
6.1	6.1	6.1	6.1	6.1
6	6	6	6	6
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards	; 			
No	No	No	No	No

15. Regulatory information

Authorisations/Restrictions

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 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 2019/1021:	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		
H300	Fatal if swallowed	
H310	Fatal in contact with skin	
H330	Fatal if inhaled	
H350	May cause cancer	
H361	Suspected of damaging fertility or the unborn child	

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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