## **Glentham** LIFE SCIENCES

### Safety Data Sheet

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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	:	GT7091
Product name	:	Phenylhydrazine hydrochloride
CAS number	:	59-88-1
EINECS	:	200-444-7
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
		- 5			5

#### 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		
H301	Acute Tox. 3	
H311	Acute Tox. 3	
H315	Skin Irr. 2	
H317	Skin Sens. 1	
H319	Eye Irr. 2A	
H330	Acute Tox. 2	
H341	Muta. 2	
H350	Carc. 1A	
H372	STOT RE 1	
H400	Aquatic Acute 1	

#### 2.2 Label elements

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

Pictograms



Signal words Hazard statements	Danger
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

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Precautionary s	statements
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P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P261	Avoid breathing dust.
Other hazards	

PBT

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

#### 3.1 Substances

2.3

Name	Identifier	%	Classification
Phenylhydrazine hydrochloride	CAS: 59-88-1 EC: 200-444-7 REACH: Not applicable	98.5%	H301, Acute Tox. 3 H311, Acute Tox. 3 H315, Skin Irr. 2 H317, Skin Sens. 1 H319, Eye Irr. 2A H330, Acute Tox. 2 H341, Muta. 2 H350, Carc. 1A H372, STOT RE 1 H400, Aquatic Acute 1

First aid measure	IS	
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. Transfer to hospital if there are burns or symptoms of poisoning. 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. 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. Transfer to hospital as soon as possible. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.	
Most important s	ymptoms 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 irritation and redness at the site of contact. There may be mild irritation 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 irritation and redness. There may be severe pain.	
Ingestion	Convulsions may occur. There may be irritation of the throat. There may be loss of consciousness.	

There may be soreness and redness of the mouth and throat. There may be vomiting.

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Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest. 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. 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. 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. Refer to section 8 of SDS for personal protection details.

#### 6.2 Environmental precautions

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

#### Methods and material for containment and cleaning up

#### Clean-up procedures

6.3

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 exhaust ventilation of the area. 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



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#### Workplace exposure limits

No workplace exposure limit control parameters set

#### 8.2 Exposure controls

Engineering measures	Ensure there is exhaust ventilation of the area. Ensure there is sufficient 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	Protective gloves.
Eye protection	Safety glasses with side-shields. 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	245 °C (decomp)
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.

#### 9.2 Other information

No data available.

#### 10. Stability and reactivity

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

#### <sup>10.2</sup> 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.

#### <sup>10.4</sup> Conditions to avoid

Flames. Hot surfaces. Heat.

#### <sup>10.5</sup> Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

#### 11. Toxicological information

#### <sup>11.1</sup> Information on toxicological effects

Acute toxicity

No data available.

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b)	Skin corrosion/irritation
	Skin corrosion/irritation (Category 2)

- c) Serious eye damage/irritation Serious eye damage/eye irritation (Category 2A)
- d) Respiratory or skin sensitisation Sensitization, Skin (Category 1)
- e) Germ cell mutagenicity Germ cell mutagenicity (Category 2)
- f) Carcinogenicity Carcinogenicity (Category 1A)
- g) Reproductive toxicity No data available.
- h) STOT-single exposure No data available.

#### i) STOT-repeated exposure

Specific target organ toxicity, repeated exposure (Category 1)

#### j) Aspiration hazard

No data available.

#### Symptoms / routes of exposure

Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be irritation and redness at the site of contact. There may be mild irritation 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 irritation and redness. There may be severe pain.
Ingestion	Convulsions may occur. There may be irritation of the throat. 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. Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest. 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.
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.

#### <sup>12.2</sup> Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment



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This substance is not identified as a PBT substance.

#### <sup>12.6</sup> Endocrine disrupting properties

This substance is not identified as having endocrine disrupting properties

#### <sup>12.7</sup> Other adverse effects

No data available.

#### 13. Disposal considerations

#### <sup>13.1</sup> 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

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN2811	UN2811	UN2811	UN2811	UN2811
14.2. UN proper shipping nam	10			
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 descript	ion			
UN2811 TOXIC SOLID, ORGANIC, N.O.S. (PHENYLHYD RAZINE HYDROCHLORIDE), 6.1, III	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (PHENYLHYD RAZINE HYDROCHLORIDE), 6.1, III	UN2811 Toxic solid, organic, n.o.s. (Phenylhydrazine hydrochloride), 6.1, III	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (PHENYLHYD RAZINE HYDROCHLORIDE), 6.1, III	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (PHENYLHYE RAZINE HYDROCHLORIDE), 6.1, III
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				
III	Ш	Ш	III	Ш
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

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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						
	H301	Toxic if swallowed				
	H311	Toxic in contact with skin				
	H315	Causes skin irritation				
	H317	May cause an allergic skin reaction				
	H319	Causes serious eye irritation				
	H330	Fatal if inhaled				
	H341	Suspected of causing genetic defects				
	H350	May cause cancer				
	H372	Causes damage to organs through prolonged or repeated exposure				
	H400	Very toxic to aquatic life				
	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				
	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				

Intravascular IV 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 Volatile Organic Compounds VOC 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.

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