GE1091 v2.0



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	: GE1091
Product name	: Guanidine hydrochloride solution, 8M, pH 8.5
CAS number	: 50-01-1
EINECS	: 200-002-3
Physical form	: liquid, mixture
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

H302	Acute Tox. 4
H315	Skin Irr. 2
H319	Eye Irr. 2A
H332	Acute Tox. 4

2.2 Label elements

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

Pictograms



Signal words	Warning
Hazard statements	
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
Precautionary stateme	nts
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.
P302+P352	IF ON SKIN: wash with plenty of water.
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.
P330	Rinse mouth.
P264	Do not breathe fume.
P261	Avoid breathing vapors.
Other hazarda	

2.3 Other hazards

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This substance is not identified as a PBT substance.

3.0	Composition/information on ingredients
3.0	composition/information on ingredients

3.2 Mixtures

Name	Identifier	%	Classification
Guanidine hydrochloride	CAS: 50-01-1 EC: 200-002-3 REACH: Not applicable	60 - 65	H302, Acute Tox. 4 H315, Skin Irr. 2 H319, Eye Irr. 2A

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.

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

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



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Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up

Clean-up procedures

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

Control parameters

8.1

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 Colour	Liquid Colourless
Odour	No data available.
Melting point/Freezing point	188 °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	$8.3 \rightarrow 8.7$
Kinematic viscosity	No data available.
Solubility	2150 g/L @ 20 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	1.300
Relative vapour pressure	No data available.
Particle characteristics	No data available.

9.2 Other information

No data available.

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10.	Stability and reactivity	
10.1	Reactivity	
	Stable under recomme	ended transport or storage conditions.
10.2	Chemical stability	
	Stable under normal c	onditions.
10.3	Possibility of hazardo	us reactions
	Hazardous reactions	
	Decomposition may or transport or storage co	ccur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal onditions.
10.4	Conditions to avoid	
	Heat.	
10.5	Incompatible material	S
	Materials to avoid	
	Strong acids. Strong o	ixidising agents.
11.	Toxicological informa	tion
11.1	Information on toxico	logical effects
a)	Acute toxicity	
	No data available.	
b)	Skin corrosion/irritation	
c)	Serious eye damage/i	rritation eye irritation (Category 2A)
d)	Respiratory or skin se	
.,	No data available.	
e)	Germ cell mutagenicit	ty
	No data available.	
f)	Carcinogenicity	
	No data available.	
g)	Reproductive toxicity	
L)	No data available.	
h)	STOT-single exposure No data available.	
i)	STOT-repeated expos	ure
-	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 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.

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		No data available.	
2.	Ecological information	ion	
1	Toxicity		
	No data available.		
2	Persistence and de	gradability	
	Biodegradable.		
3	Bioaccumulative p	tential	
	No bioaccumulatior	potential.	
4	Mobility in soil		
	Readily absorbed ir	to soil.	
.5	Results of PBT and	vPvB assessment	
	This substance is n	ot identified as a PBT substance.	
.6	Endocrine disrupti	g properties	
	This substance is n	ot identified as having endocrine disrupting properties	
2.7	Other adverse effect	ts	
	No data available.		
3.	Disposal considera		
.1	Waste treatment m	thods	
	Disposal operations		
	Transfer to a suitab	e container and arrange for collection by specialised disposal company.	
	Transfer to a suitab NB	e container and arrange for collection by specialised disposal company.	
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H319 Causes serious eye irritation

Abbreviations Full Texts

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ADN ADR	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways 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.

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