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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	: GE4032
Product name	: 3,3"-Diaminobenzidine tetrahydrochloride hydrate
CAS number	: 868272-85-9
EINECS	: 231-018-9
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

H302	Acute Tox. 4
H319	Eye Irr. 2A
H341	Muta. 2
H350	Carc. 1B

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H302	Harmful if swallowed
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
Precautionary statement	ts
P201	Obtain special instructions before use.
P281	Use personal protective equipment as required.
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.
P264	Do not breathe fume.
Other hazards	

РВТ

This substance is not identified as a PBT substance.

2.3

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3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
3,3"-Diaminobenzidine tetrahydrochloride hydrate	CAS: 868272-85-9 EC: 231-018-9 REACH: Not applicable	96.0%	H302, Acute Tox. 4 H319, Eye Irr. 2A H341, Muta. 2 H350, Carc. 1B

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. 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. Transfer to hospital as soon as possible. Wash out mouth with water.
Inhalation	If unconscious and breathing is OK, place in the recovery position. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible. 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. There may be mild irritation at the site of contact.
Eye contact	May cause permanent damage. The eyes may water profusely. The vision may become blurred. There may be irritation and redness. There may be pain and redness. There may be severe pain.
Ingestion	Nausea and stomach pain may occur. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure. 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. 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.

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GE4032 v2.0

Safety Data Sheet

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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 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.

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.

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 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 with side-shields. Tightly fitting safety goggles. Safety glasses.
Skin protection	Protective clothing.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Safety Data Sheet

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Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	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

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

a) Acute toxicity

No data available.

b) Skin corrosion/irritation No data available.

c) Serious eye damage/irritation Serious eye damage/eye irritation (Category 2A)

d) Respiratory or skin sensitisation No data available.

e) Germ cell mutagenicity Germ cell mutagenicity (Category 2)

f) Carcinogenicity Carcinogenicity (Category 1B)

g) Reproductive toxicity No data available.

- h) STOT-single exposure No data available.
- i) STOT-repeated exposure No data available.
- J) Aspiration hazard No data available.

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11.2 Symptoms / routes of exposure

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Skin contact	There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	May cause permanent damage. The eyes may water profusely. The vision may become blurred. There may be irritation and redness. There may be pain and redness. There may be severe pain.
Ingestion	Nausea and stomach pain may occur. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.
Other information	No data available.
Ecological information	on
Toxicity	
No data available.	
Persistence and deg	radability
Biodegradable.	
Bioaccumulative pot	tential
No bioaccumulation	potential.
Mobility in soil	
Readily absorbed int	o soil.
Results of PBT and	vPvB assessment
This substance is no	t identified as a PBT substance.
Endocrine disrupting	g properties
This substance is no	t identified as having endocrine disrupting properties
Other adverse effect	s
No data available.	
Disposal consideration	ions
Waste treatment met	thods
Disposal operations	a container and arrange for collection by angulation dispaced company
	e container and arrange for collection by specialised disposal company.
	is drawn to the possible existence of regional or national regulations regarding disposal.
Transport information	
mis product does no	t require a classification for transport.
Regulatory information	
-	Inmental regulations/legislation specific for the substance or mixture
This Safety Data She Regulation (EU) 202	eet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission 0/787.
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Authorisations/Restrictions

GE4032 v2.0

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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

H302	Harmful if swallowed
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H350	May cause cancer

Abbreviations Full Texts

ADN ADR ALARP CAS CLP COSHH EC Number EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL VOC VPVB	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road As low as is reasonably practicable Chemical Abstracts Service Classification, Labelling and Packaging Regulations Control of Substances Hazardous to Health European Community Number Effective Concentration 50% European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intranuscular The International Maritime Dangerous Goods Code Intraperitoneal Intravascular Lethal Dose 50% Lowest 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
vOC vPvB WEL	Volatile Organic Compounds Very Persistent and Very Bioaccumulative 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.