<u>Glentham</u> LIFE SCIENCES

Safety Data Sheet

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

1.1 Product identifier

Product name	: Malate Dehydrogenase
Product code	: GZ3544
CAS number	: 9001-64-3

Relevant identified uses of the substance or mixture and uses advised against 1.2

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 number: +44 (0) 1225 667 798 (09.00 - 17.00 GMT)

REACH 1.5

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2.3

3.0 3.1

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.

Hazards identification 2.

Classification of the substance or mixture 2.1

Classification under CLP

Resp. Sens. 1.

2.2 Label elements

Label elements under CLP

Pictograms



	Signal words	Danger				
	Hazard statements H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
	Precautionary stat					
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.				
	P280	Wear protective gloves/protective clothing/eye protection/face protection.				
	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.				
	P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.				
2.3	Other hazards					
	PBT					
	This substance is no	ntified as a PBT substance.				
		······				
3.0	Composition/inforn	on ingredients				
3.1	Substances					
	Product name	Malate Dehydrogenase MW:				
	CAS number	9001-64-3 MF :				
4.0	First aid measures					
4.1	Description of first aid m	e				
	Skin contact	•				
	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.					
	Eye contact					
	Bathe the eye with running water for 15 minutes. Consult a doctor.					
	Ingestion					
	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.					
	Inhalation					
	Consult a doctor. Re	e casualty from exposure ensuring one's own safety whilst doing so.				



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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
	There may be irritation and redness. The eyes may water profusely.
	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
	Inhalation There may be irritation of the throat with a feeling of tightness in the chest.
	Delayed / immediate effects
	Immediate effects can be expected after short-term exposure.
4.3	Indication of any immediate medical attention and special treatment needed
	Immediate / special treatment
	Not applicable.
5.0	Fire-fighting measures
5.1	Extinguishing media
	Use water spray to cool containers. Suitable extinguishing media for the surrounding fire should be used.
5.2	Special hazards arising from the substance or mixture
	Exposure hazards
5.3	In combustion emits toxic fumes. Advice for fire-fighters
5.5	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
	······
6.0	Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures Personal precautions
6.2	Refer to section 8 of SDS for personal protection details. 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.
6.2	Environmental precautions Do not discharge into drains or rivers.
6.3	Methods and material for containment and cleaning up
0.0	Clean-up procedures
	Transfer to a closable, labelled salvage container for disposal by an appropriate method.
6.3	Reference to other sections
	Refer to section 8 of SDS.
7.0	Handling and storage
7.1	Precautions for safe handling
	Handling requirements Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air.
	Avoid direct contact with the substance.
7.2	Conditions for safe storage, including any incompatibilities
	Storage conditions
	Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.
7.3	Specific end use(s)
	No data available.
8.0	Exposure controls/personal protection
8.1	Control parameters
	Workplace exposure limits
	Not applicable.
8.2	Exposure controls Engineering measures



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	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
	Safety glasses. Ensure eye bath is to hand.
	Skin protection
	Protective clothing.
 9.0	Physical and chemical properties
9.1	Information on basic physical and chemical properties
3.1	
	Physical Form:
	Colour:
9.2	Other information
	Not applicable.
10.0	Stability and reactivity
10.1	Reactivity
10.2	Chemical stability
	Stable under normal conditions.
10.3	Possibility of hazardous reactions
	Hazardous reactions
	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
10.4	Conditions to avoid
	Heat.
10.5	Incompatible materials
	Materials to avoid
	Strong acids. Strong oxidising agents.
	Toxicological information
11.1	Information on toxicological effects
	Toxicity values
	Not applicable.
11.2	Information on toxicological effects
	Skin contact
	There may be irritation and redness at the site of contact.
	Eye contact
	There may be irritation and redness. The eyes may water profusely. Ingestion
	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
	Inhalation
	There may be irritation of the throat with a feeling of tightness in the chest.
	Delayed / immediate effects
	Immediate effects can be expected after short-term exposure.
	Other information
12.0	Ecological information
12.1	Toxicity
	Not applicable.

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12.2	Persistence and degradability
	Biodegradable.
12.3	Bioaccumulative potential
	No bioaccumulation potential.
12.4	Mobility in soil
	Readily absorbed into soil.
12.5	Results of PBT and vPvB assessment
	This substance is not identified as a PBT substance.
12.6	Endocrine disrupting properties
	Negligible ecotoxicity.
13.0	Disposal considerations
13.1	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.
	Transport information
	This product does not require a classification for transport.
	Regulatory information
	Safety, health and environmental regulations/legislation specific for the substance or mixture
	Not applicable.
	Chemical Safety Assessment
	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.
 16.0	Other information
	Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Legal disclaimer

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 company shall not be held liable for any damage resulting from handling or from contact with the above product.