GM3243 v2.0



Safety Data Sheet

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

1.	Identification of the substance/mixture and of the company/undertaking		
1.1	Product identifier		
	Product code	: GM3243	
	Product name	: H-Orn(Z)-OH	
	CAS number	: 3304-51-6	
	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) 1272/2	800
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	• • •
H302	Acute Tox. 4
H315	Skin Irr. 2
H319	Eye Irr. 2A
H332	Acute Tox. 4
H335	STOT SE 3
H336	STOT SE 3

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
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Precautionary statement	ts
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P264	Do not breathe fume.
P261	Avoid breathing dust.

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2.3 Other hazards

РВТ

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

4. First aid measures

4.2

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. Wash immediately with plenty of soap and water.
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.
lost important sym	ptoms 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	The eyes may water profusely. There may be irritation and redness. There may be pain and redness
Ingestion	Nausea and stomach pain may occur. There may be difficulty swallowing. There may be soreness and redness of the mouth and throat.
Inhalation	Drowsiness or mental confusion may occur. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects	Drowsiness or mental confusion may occur. 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.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

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

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6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not create dust. 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

Do not discharge into drains or rivers.

Methods and material for containment and cleaning up

Clean-up procedures

6.3

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

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	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	Solid
Colour	White
Odour	No data available.
Melting point/Freezing point	254 °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	No data available.

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Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
Density/relative density
Relative vapour pressure
Particle characteristics

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.

No data available. No data available.

^{10.4} Conditions to avoid

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 Skin corrosion/irritation (Category 2)

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

- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.
- f) Carcinogenicity No data available.
- g) Reproductive toxicity
 No data available.

h) STOT-single exposure Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

i) STOT-repeated exposure No data available.

- i) Aspiration hazard No data available.
- 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 contact.	y be mild irritation at the site of
Eye contact	The eyes may water profusely. There may be irritation and redness.	There may be pain and redness.
Ingestion	Nausea and stomach pain may occur. There may be difficulty swallo and redness of the mouth and throat.	owing. There may be soreness
Inhalation	Drowsiness or mental confusion may occur. Nausea and stomach p irritation of the throat with a feeling of tightness in the chest.	ain may occur. There may be
Delayed / immediate effects	Drowsiness or mental confusion may occur. Immediate effects can be exposure. Nausea and stomach pain may occur.	be expected after short-term
Other information	No data available.	
Ecological information	n	
Toxicity		
No data available.		
Persistence and degra	adability	
Biodegradable.		
Bioaccumulative pote	ntial	
No bioaccumulation po	otential.	
Mobility in soil		
Readily absorbed into	soil.	
Results of PBT and vF	PvB assessment	
This substance is not i	dentified as a PBT substance.	
Endocrine disrupting	properties	
This substance is not i	dentified as having endocrine disrupting properties	
Other adverse effects		
No data available.		
Disposal consideratio	ns	
Waste treatment meth	ods	
Disposal operations		
Transfer to a suitable o	container and arrange for collection by specialised disposal company.	
	drawn to the possible existence of regional or national regulations reg	arding disposal.
Transport information		
This product does not	require a classification for transport.	
Regulatory informatio	n	
•	nental regulations/legislation specific for the substance or mixture	
This Safety Data Shee Regulation (EU) 2020/	et is prepared in accordance with Commission Regulation (EC) 1907/20 787.	006, amended by Commission
Authorisations/Restrictions		
authorisation:	07/2006, REACH, Annex XIV list of substances subject to	No data available.
	07/2006, REACH, Annex XVII restrictions on the manufacture, placing use of certain dangerous substances:	No data available.
	05/2009 on substances that deplete the ozone layer:	No data available.
Regulation (EC) 85 2019/1021:	0/2004 on persistent organic pollutants, amended by (EU) No	No data available.

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15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

I-Statement Full	Texts
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Abbreviations Fu	ull 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
ΙΑΤΑ	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.

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.