Glentham LIFE SCIENCES

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 identifier			
	Product code Product name	: GS1284 : n-Hexane 99%, GlenPure™, analytical grade			
	CAS number Physical form	: 110-54-3 : liquid, 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 c	hemicals.			
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

Hazards identification 2.

2.1 Classification of the substance or mixture

Classification under CLP ac	ccording to (EC) 1272/2008
H225	Flam. Liq. 2
H304	Asp. Tox. 1
LI215	Skip Irr 2

H315	Skin Irr. 2
H335	STOT SE 3
H336	STOT SE 3
H361	Repr. 2
H373	STOT RE 2
H411	Aquatic Chronic 2

2.2 Label elements

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

Pictograms



Signal words Hazard statements	Danger
	1 Balda Armanala Barda and ann ann
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
Precautionary statements	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.



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2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

4. First aid measures

4.1 Description of first aid measures

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.
Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. In 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.
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.
mptoms and effects, both acute and delayed
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.
The eyes may water profusely. There may be irritation and redness. There may be pain and redness. There may be severe pain.
Convulsions may occur. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation. 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 difficulty swallowing. 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. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.

4.2

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Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. Drowsiness or mental confusion may occur. Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. 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. Delayed effects can be expected after long-term exposure. Drowsiness or mental confusion may occur. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. 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.

5. Fire-fighting measures

5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Water spray.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture. 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. Eliminate all sources of ignition. 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.

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. Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks.

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 exhaust ventilation of the area. Smoking is forbidden. Use non-sparking tools. 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. Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. Store in cool, well ventilated area.

7.3 Specific end use(s)

No data available.

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8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Substance (CAS)	Control Parameter	Value	Notes	Source
n-Hexane (110-54-3)	Long-term Exposure Limit (ppm)	72	20	2006/15/EC
	Long-term Exposure Limit (mg m ⁻³)	20		
	Long-term Exposure Limit (ppm)	20	UK HSE EH40/2	UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	72		

8.2 Exposure controls

Engineering measures	Ensure lighting and electrical equipment are not a source of ignition. 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. Self-contained breathing apparatus must be used in handling.
Hand protection	Impermeable gloves. 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	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	-94.3 °C
Boiling point/initial boiling point/boiling range	68.7 °C
Flammability	Highly flammable liquid and vapour
Lower/Upper explosion limit	No data available.
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.

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 at room temperature. Stable under normal conditions.

^{10.3} Possibility of hazardous reactions

Hazardous reactions

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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. Sources of ignition. Heat.

Incompatible materials

Materials to avoid

10.5

Carbon dioxide. Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

n-Hexane

24 hr LC50 Goldfish (Carassius auratus) (Aquatic): 4 mg/L 1 hr LC50 Rat (Inhalation): 77000 ppm 4 hr LC50 Rat (Inhalation): 48000 ppm LD50 Rat (Oral): 45 mL/kg LD50 Mouse (Oral): 5000 mg/kg

b) Skin corrosion/irritation

Skin corrosion/irritation (Category 2)

- c) Serious eye damage/irritation No data available.
- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.

f) Carcinogenicity

No data available.

g) Reproductive toxicity

n-Hexane: Toxic to Reproduction (suspected) (ECHA Property of Concern) Reproductive toxicity (Category 2)

h) STOT-single exposure

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

i) STOT-repeated exposure

Specific target organ toxicity, repeated exposure (Category 2)

j) Aspiration hazard

Aspiration hazard (Category 1)

11.2 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 pain and redness. There may be severe pain.
Ingestion	Convulsions may occur. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation. 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 difficulty swallowing. 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. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.

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Transport information					
The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.					
NB					
Transfer to a suitable container and arrange for collection by specialised disposal company.					
Waste treatment methods Disposal operations					
Disposal consideratio					
No data available.					
Other adverse effects	-				
This substance is not i	dentified as having	g endocrine disrupting p	properties		
Endocrine disrupting	properties				
This substance is not i		Г substance.			
Results of PBT and vF					
Readily absorbed into soil.					
Mobility in soil					
Bioaccumulation poter					
Bioaccumulative pote	ntial				
Not biodegradable.					
Persistence and degra	adability				
No data available.					
Toxicity					
Ecological information					
Other information	No data available		-		
Delayed / immediate effects	mental confusior	• •	e effects can be expec	er long-term exposure. Drowsiness or cted after short-term exposure. Nausea sness.	
	Nausea and stor in the chest. The	mach pain may occur. ٦	There may be irritation ciousness. There may	osure may cause coughing or wheezing. In of the throat with a feeling of tightness y be shortness of breath with a burning	

14.1. UN number				
UN1208	UN1208	UN1208	UN1208	UN1208
14.2. UN proper shipping name				
HEXANES	HEXANES	Hexanes	HEXANES	HEXANES
Transport document description				
UN1208 HEXANES, 3, II	UN1208 HEXANES, 3, II	UN1208 Hexanes, 3, II	UN1208 HEXANES, 3, II	UN1208 HEXANES, 3, II

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14.3. Transport hazard class(es)					
3	3	3	3	3	
			٢		
14.4. Packing group					
II	II	II	II	II	
14.5. Environmental hazards					
No	No	No	No	No	
10	10	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) 2020/787.

Authorisations/Restrictions				
	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
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н	-Statement Full I	exts
	H225	Highly flammable liquid and vapour
	H304	May be fatal if swallowed and enters airways
	H315	Causes skin irritation
	H335	May cause respiratory irritation
	H336	May cause drowsiness or dizziness
	H361	Suspected of damaging fertility or the unborn child
	H373	May cause damage to organs through prolonged or repeated exposure
	H411	Toxic to aquatic life with long lasting effects
A	bbreviations 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%
		European List of Natified Chemical Substances

- 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

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Lethal Dose 50%
Lowest Observable Effective Concentration
Long Term Exposure Limit
No 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
Specific Target Organ Toxicity
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.

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