

Safety Data Sheet

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	According to REACH	l Regulations (EC) 1907/2006 and (EU) 2020/878
۱.	Identification of the	substance/mixture and of the company/undertaking
.1	Product identifier	
	Product code Product name CAS number Physical form REACH	 GS6352 n-Pentane 95%, GlenPure [™], analytical grade 109-66-0 liquid, substance 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.
2	Relevant identified u	uses of the substance or mixture and uses advised against
	PC21: Laboratory ch	emicals.
3	Details of the suppli	er of the safety data sheet
	Company name	: Glentham Life Sciences LtdTelephone: +44 (0) 1225 667 798Unit 5 Leafield WayFax: +44 (0) 2033 978 909Corsham SN13 9SWEmail: info@glentham.comUnited KingdomWeb: www.glentham.com
4	Emergency telephon	ie number
	Emergency telephon number	ne : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)
	Hazards identificatio	n
	Classification of the	substance or mixture
	Classification under CLP	according to (EC) 1272/2008
	H225 H304 H335 H336 H411	Flam. Liq. 2 Asp. Tox. 1 STOT SE 3 STOT SE 3 Aquatic Chronic 2
2	Label elements	
	Label elements under CLF	P according to (EC) 1272/2008
	Pictograms	GHS02 GHS07 GHS08 GHS09
	Signal words	Danger
	Hazard statements	
	H225 H304 H335 H336 H411 EUH066	Highly flammable liquid and vapour May be fatal if swallowed and enters airways May cause respiratory irritation May cause drowsiness or dizziness Toxic to aquatic life with long lasting effects Repeated exposure may cause skin dryness or cracking.
	Precautionary state	
	P210 P233 P240 P273 P301+P310 P331 P241 P261	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER/doctor/ Do NOT induce vomiting. Use explosion-proof electrical equipment. Avoid breathing vapors

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PBT

This substance is not identified as a PBT substance.

Substances				
Name		Identifier	%	Classification
n-Pentane 95%, Gl	enPure™, analytical grade	CAS: 109-66-0 EC: REACH: Not applicable	95.0%	H225, Flam. Liq. 2 H304, Asp. Tox. 1 H335, STOT SE 3 H336, STOT SE 3 H411, Aquatic Chronic 2
First aid measures				
Description of first a	id measures			
Skin contact	still on skin. Remove all c	ontaminated clothes a	and footwear in	for 10 minutes or longer if substance is nmediately unless stuck to skin. ng. Wash immediately with plenty of
Eye contact	Consult a doctor. Transfe 15 minutes.	r to hospital for specia	alist examinatio	on. Bathe the eye with running water for
Ingestion	unconscious and breathin	g is OK, place in the	recovery positi	alf a litre of water to drink immediately. I on. If unconscious, check for breathing al as soon as possible. Wash out mouth
Inhalation	ensure the casualty sits o position. If unconscious, c	r lies down. If uncons heck for breathing an	cious and brea d apply artifici	e oxygen if available. If conscious, athing is OK, place in the recovery al respiration if necessary. Transfer to alty from exposure ensuring one's own
Most important symp	otoms and effects, both acute	e and delayed		
Skin contact		at the site of contact.	There may be	y occur at the site of contact. There may mild irritation at the site of contact. exposure.
Eye contact	The eyes may water profu	usely. There may be i	ritation and re	dness. There may be severe pain.
Ingestion	-		•	r. There may be irritation of the throat. and redness of the mouth and throat.
Inhalation	may occur. Exposure may may be irritation of the thr	/ cause coughing or w oat with a feeling of ti	/heezing. Naus ghtness in the	milar to those of ingestion. Convulsions sea and stomach pain may occur. There chest. There may be loss of ning sensation in the throat. There may
Delayed / immediate			ovposted off	er long-term exposure. Immediate

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



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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. 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

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. Do not handle in a confined space. 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. The floor of the storage room must be impermeable to prevent the escape of liquids. 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

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LIF	FE S	CIE	NCES

Substance (CAS)	Control Parameter	Value	Notes	Source
Pentane (109-66-0)	Long-term Exposure Limit (ppm)	600		UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	1800		
	Long-term Exposure Limit (ppm)	3000		2006/15/EC
	Long-term Exposure Limit (mg m ⁻³)	1000		
Exposure controls				
Engineering measures	Ensure lighting and electrical equipment are r ventilation of the area. The floor of the storage liquids. Ensure there is sufficient ventilation o	e room must be ir		
Respiratory protection	Particle filter class P1 (EN143). Respiratory p breathing apparatus must be available in case		vith particle filter	. Self- contained
Hand protection	Impermeable gloves. Protective gloves.			
Eye protection	Safety glasses with side-shields. Ensure eye	bath is to hand. S	afety glasses.	
Skin protection	Protective clothing.			
Environmental	The floor of the storage room must be impern	neable to prevent	the escape of lie	quids.

9. Physical and chemical properties

8.2

9.1 Information on basic physical and chemical properties

Dhysical state	Liquid
Physical state	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	-129.7 °C
Boiling point/initial boiling point/boiling range	36.1 °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.
рН	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	0.626
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

Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.



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10.4	Conditions to avoid	
	Flames. Hot surfaces	s. Sources of ignition. Heat.
10.5	Incompatible materia	als
	Materials to avoid	
	Carbon dioxide. Stror	ng acids. Strong oxidising agents.
11.	Toxicological inform	ation
11.1	Information on toxico	ological effects
a)	Acute toxicity	
	Pentane 4 hr LC50 Rat (Inhala 4 hr LC50 Rat (Inhala LD50 Mouse (IV): 444	
b)	Skin corrosion/irritat No data available.	ion
c)	Serious eye damage / No data available.	/irritation
d)	Respiratory or skin s No data available.	sensitisation
e)	Germ cell mutagenic No data available.	ity
f)	Carcinogenicity No data available.	
g)	Reproductive toxicity No data available.	y .
h)	STOT-single exposure Specific target organ	re toxicity, single exposure; Respiratory tract irritation (Category 3)
i)	STOT-repeated expo No data available.	sure
j)	Aspiration hazard Aspiration hazard (Ca	ategory 1)
	Symptoms / routes o	f 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 severe pain.
	Ingestion	Convulsions may occur. Nausea and stomach pain may occur. 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.
	Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions 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. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be loss of consciousness.
	Other information	No data available.
11.2	Information on other	hazards

11.2 Information on other hazards



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		3, II 14.3. Transport hazard class	3, II (es)	11	3, II	3, II

14.4. Packing group

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14.5. Environmenta						
	Ihazards					
Νο	No	No No	No			
Regulatory infor	nation					
Safety, health and en	vironmental regulations/legislation specific	for the substance or mixture				
This Safety Data Regulation (EU)		vith Commission Regulation (EC	c) 1907/2006, amended by Commission			
Authorisations/Restr	ctions					
Regulation (E authorisation:	C) 1907/2006, REACH, Annex XIV	list of substances subject to	No data available.			
	C) 1907/2006, REACH, Annex XVII and use of certain dangerous subs		e, placing No data available.			
Regulation (E	C) 1005/2009 on substances that d	eplete the ozone layer:	No data available.			
Regulation (E 2019/1021:	C) 850/2004 on persistent organic p	pollutants, amended by (EU) No	No data available.			
Chemical safety asse	ssment					
•	assessment has not been carried	out for the substance or the mi	xture by the supplier			
Other informatio	n					
H-Statement Full	Texts					
H225	Highly flammable liquid and vap	our				
H304	May be fatal if swallowed and er					
H335	May cause respiratory irritation	-				
H336	May cause drowsiness or dizzin	less				
H411	Toxic to aquatic life with long las					
Abbreviations Full Texts						
Abbreviations Fi	II Texts					
		a the International Carriage of I	Dangerous Goods by Inland Waterways			
ADN	European Agreement concernin		Dangerous Goods by Inland Waterways			
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This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

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