GS5970 v2.0



Safety Data Sheet

www.glentham.com

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	: GS5970
Product name	: Toluene, GlenDry™, anhydrous
CAS number	: 108-88-3
EINECS	: 203-625-9
Physical form	: 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 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

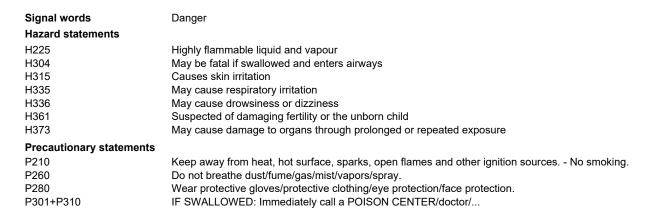
H225	Flam. Liq. 2
H304	Asp. Tox. 1
H315	Skin Irr. 2
H335	STOT SE 3
H336	STOT SE 3
H361	Repr. 2
H373	STOT RE 2

2.2 Label elements

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

Pictograms







Safety Data Sheet

www.glentham.com

DN SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or
wer].
re in a well-ventilated place. Keep cool.
not breathe fume.
e explosion-proof electrical equipment.
bid breathing vapors.

2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
Toluene, GlenDry™, anhydrous	CAS: 108-88-3	99.9%	H225, Flam. Liq. 2
	EC: 203-625-9		H304, Asp. Tox. 1
	REACH: Not		H315, Skin Irr. 2
	applicable		H335, STOT SE 3
			H336, STOT SE 3
			H361, Repr. 2
			H373, STOT RE 2

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. 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.

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	The eyes may water profusely. There may be irritation and redness.
Ingestion	Nausea and stomach pain may occur. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	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 vomiting.
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. Eye bathing equipment should be available on the premises.

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



Safety Data Sheet

www.glentham.com

Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture.

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 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. 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. 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.

8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Substance (CAS)	Control Parameter	Value	Notes	Source
Toluene (108-88-3)	Long-term Exposure Limit (ppm)	50	Sk	UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	191		
	Short-term Exposure Limit (ppm)	100		
	Short-term Exposure Limit (mg m ⁻³)	384		
	Long-term Exposure Limit (ppm)	192	skin	2006/15/EC
	Long-term Exposure Limit (mg m ⁻³)	50		
	Short-term Exposure Limit (ppm)	384	•	
	Short-term Exposure Limit (mg m ⁻³)	100	•	

Glentham LIFE SCIENCES

Safety Data Sheet

www.glentham.com

8.2 Exposure controls

Engineering measures	Ensure lighting and electrical equipment are not a source of ignition. 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	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	-94.9 °C
Boiling point/initial boiling point/boiling range	110.6 °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	0.864
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

10.3

Stable under recommended transport or storage conditions.

^{10.2} Chemical stability

Stable at room temperature. Stable under normal conditions.

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. Sources of ignition. Heat.

^{10.5} Incompatible materials

Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

11. Toxicological information

^{11.1} Information on toxicological effects

a) Acute toxicity Toluene

GS5970 v2.0

Glentham LIFE SCIENCES

Safety Data Sheet

www.glentham.com

	LD50 Rabbit (Derma	al): 14.1 mL/kg
	LC50 Rat (Inhalation	
	LD50 Mouse (IP): 1.	•••
	LD50 Rat (IP): 1.64	
	LD50 Rat (Oral): 2.6	
b)	Skin corrosion/irrita	tion
	Skin corrosion/irritati	ion (Category 2)
c)	Serious eye damage)/irritation
	No data available.	
d)	Respiratory or skin	sensitisation
	No data available.	
e)	Germ cell mutagenio	city
	No data available.	
f)	Carcinogenicity	
.,	No data available.	
g)	Reproductive toxicit	•
	Reproductive toxicity	
h)	STOT-single exposu	
	Specific target organ	n toxicity, single exposure; Respiratory tract irritation (Category 3)
i)	STOT-repeated expo	osure
	Specific target organ	n toxicity, repeated exposure (Category 2)
j)	Aspiration hazard	
	Aspiration hazard (C	Category 1)
11.2	Symptoms / routes of	of exposure
	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.

Ingestion	Nausea and stomach pain may occur. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	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 vomiting.

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 12.

12.1 Toxicity

72 hr EC50 Algae (Pseudokirchneriella subcapitata): 12500 ug/L 8 days EC50 Algae (Pseudokirchneriella subcapitata): 9400 ug/L 48 hr EC50 Algae (Scenedesmus subspicatus): 160 mg/L 48 hr EC50 Algae (Scenedesmus subspicatus): 125 mg/L

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



Safety Data Sheet

www.glentham.com

This substance is not identified as a PBT substance.

12.6 Endocrine disrupting properties

This substance is not identified as having endocrine disrupting properties

^{12.7} Other adverse effects

No data available.

13. 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.

14. Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN1294	UN1294	UN1294	UN1294	UN1294
14.2. UN proper shipping na	me			
TOLUENE	TOLUENE	Toluene	TOLUENE	TOLUENE
Transport document descrip	tion			
UN1294 TOLUENE, 3, II	UN1294 TOLUENE, 3, II	UN1294 Toluene, 3, II	UN1294 TOLUENE, 3, II	UN1294 TOLUENE, 3, II
14.3. Transport hazard class	(es)			
3	3	3	3	3
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards	;			
No	No	No	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: 13 Jan 2016, Entry No.: 48 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 No data available.

15.2 Chemical safety assessment

GS5970 v2.0



Safety Data Sheet

www.glentham.com

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		
	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	
	Abbreviations Fu	II 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	
	IATA	International Air Transport Association	
	IM	Intramuscular	
	IMDG	The International Maritime Dangerous Goods Code	
	IP	Intraperitoneal	
	IV LDC0	Intravascular	
	LD50 LOEC	Lethal Dose 50% 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	
	STOT	Specific Target Organ Toxicity	
	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.

Copyright © 2023 Glentham Life Sciences Limited. All rights reserved.