GS8845 v2.0



Safety Data Sheet

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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	:	GS8845
Product name	:	Toluene, GlenUltra™, analytical grade, for GC
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

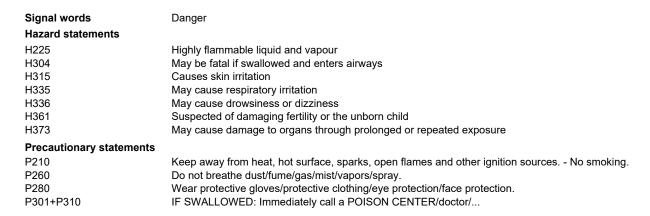
H225	Flam. Liq. 2
H304	Asp. Tox. 1
H315	Skin Irr. 2
H335	STOT SE 3
H336	STOT SE 3
H361	Repr. 2
H373	STOT RE 2

2.2 Label elements

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

Pictograms







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P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
D400 - D005	
P403+P235	Store in a well-ventilated place. Keep cool.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P241	Use explosion-proof electrical equipment.
P261	Avoid breathing vapors.
Other hazards	

PBT

2.3

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
oluene, GlenUltra™, analytical grade, for GC	CAS: 108-88-3		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



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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	•	

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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

Liquid
Colourless
No data available.
-94.9 °C
110.6 °C
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

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	Eye contact	The eyes may water profusely. There may be irritation and redness.
	Skin contact	There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.
11.2	Symptoms / routes of exposure	
	Aspiration hazard (Ca	ategory 1)
j)	Aspiration hazard	
	• •	toxicity, repeated exposure (Category 2)
i)	STOT-repeated exposure	
h)	STOT-single exposure Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)	
g)	Reproductive toxicity Reproductive toxicity (Category 2)	
f)	Carcinogenicity No data available.	
e)	Germ cell mutagenicity No data available.	
d)	Respiratory or skin s No data available.	ensitisation
c)	Serious eye damage/ No data available.	lirritation
b)	Skin corrosion/irritat Skin corrosion/irritatio	
	LC50 Rat (Inhalation) LD50 Mouse (IP): 1.1 LD50 Rat (IP): 1.64 g LD50 Rat (Oral): 2.6-	ý: 8000 ppm 5 g/kg /kg
	LD50 Rabbit (Dermal): 14.1 mL/kg

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.
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.

12. Ecological information

Ingestion

Inhalation

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



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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

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

16. Other information	n				
H-Statement Ful	H-Statement Full Texts				
H225 H304 H315 H335 H336	Highly flammable liquid and vapour May be fatal if swallowed and enters airways Causes skin irritation May cause respiratory irritation 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 Full Texts				
ADN ADR ALARP CAS CLP COSHH EC Number EC50 EILINCS EINECS GHS HSE IATA IM	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road As low as is reasonably practicable Chemical Abstracts Service Classification, Labelling and Packaging Regulations Control of Substances Hazardous to Health European Community Number Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intramuscular				
IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL	The International Maritime Dangerous Goods Code Intraperitoneal Intravascular 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				
STOT VOC vPvB WEL	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.

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.

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