GS7641 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	: GS7641
Product name	: Toluene, GlenDry™, anhydrous over molecular sieve
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

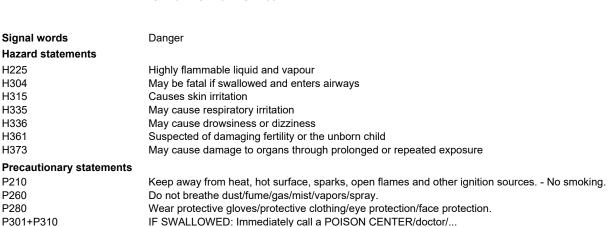
H225	Flam. Liq. 2
H304	Asp. Tox. 1
H315	Skin Irr. 2
H335	STOT SE 3
H336	STOT SE 3
H361	Repr. 2
H373	STOT RE 2

2.2 Label elements

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

Pictograms







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IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
Shower].
Store in a well-ventilated place. Keep cool.
Do not breathe fume.
Use explosion-proof electrical equipment.
Avoid 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 over molecular sieve	CAS: 108-88-3 EC: 203-625-9 REACH: Not applicable	99.9%	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

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.

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

4.2



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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

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

GS7641 v2.0

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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 (Category 1)
j)	Aspiration hazard	
	Specific target orga	n toxicity, repeated exposure (Category 2)
i)	STOT-repeated exp	osure
,	• .	ure n toxicity, single exposure; Respiratory tract irritation (Category 3)
h)	STOT-single expos	
g)	Reproductive toxic	•
f)	Carcinogenicity No data available.	
e)	Germ cell mutagen No data available.	icity
d)	Respiratory or skin No data available.	sensitisation
c)	Serious eye damag No data available.	e/irritation
b)	Skin corrosion/irrita	
	LD50 Rat (Oral): 2.6	6-7.5 g/kg
	LD50 Mouse (IP): 1 LD50 Rat (IP): 1.64	
	LC50 Rat (Inhalatio	
	LD50 Rabbit (Derm	

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.

		5	5	,	5
Delayed / immediate effects	Delayed effects can be expected short-term exposure. Nausea ar			te effects ca	n be expected after

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



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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

GS7641 v2.0



Safety Data Sheet

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

Other informatio	n			
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	III 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	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			
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.

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