

### 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	: GS6038
Product name	: Cyclohexanone, GlenDry™, anhydrous
CAS number	: 108-94-1
EINECS	: 203-631-1
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

H226	Flam. Liq. 3
H332	Acute Tox, 4

#### 2.2 Label elements

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

Pictograms



Signal words	Warning
Hazard statements	
H226	Flammable liquid and vapour
H332	Harmful if inhaled
Precautionary statements	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P233	Keep container tightly closed.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P261	Avoid breathing vapors.
P241	Use explosion-proof electrical equipment.
Other hazards	
РВТ	
This substance is not identif	ied as a PBT substance.

#### 3.0 Composition/information on ingredients

2.3

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#### 3.1 Substances

**4**.

4.2

Name		Identifier	%	Classification	
Cyclohexanone, (	GlenDry™, anhydrous	CAS: 108-94-1 EC: 203-631-1 REACH: Not applicable	99.8%	H226, Flam. Liq. 3 H332, Acute Tox. 4	
irst aid measures					
Description of first	aid measures				
Skin contact			•	r for 10 minutes or longer if substance is mmediately unless stuck to skin.	
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 immediate Wash out mouth with water.			nalf a litre of water to drink immediately.	
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.				
/lost important syr	nptoms and effects, both a	cute and delayed			
Skin contact	There may be irritation contact.	and redness at the site	of contact. The	ere may be mild irritation at the site of	
Eye contact	The eyes may water profusely. There may be irritation and redness. There may be pain and redness.				
Ingestion	•	pain may occur. There m uth and throat. There ma		n of the throat. There may be soreness	
Inhalation	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.

#### 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. 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.

#### 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

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.

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#### 6.3 Methods and material for containment and cleaning up

#### Clean-up procedures

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
Cyclohexanone (108-94-1)	Long-term Exposure Limit (ppm)	10	Sk, BMGV	UK HSE EH40/2005
	Long-term Exposure Limit (mg m <sup>-3</sup> )	41		
	Short-term Exposure Limit (ppm)	20		
	Short-term Exposure Limit (mg m <sup>-3</sup> )	82		
	Long-term Exposure Limit (ppm)	40.8	Skin	2000/39/EC
	Long-term Exposure Limit (mg m <sup>-3</sup> )	10		
	Short-term Exposure Limit (ppm)	81.6		
	Short-term Exposure Limit (mg m <sup>-3</sup> )	20		

#### 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

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Physical state
Colour
Odour
Melting point/Freezing point
Boiling point/initial boiling point/boiling range
Flammability
Lower/Upper explosion limit
Flash Point
Auto-ignition temperature
Decomposition temperature
pH
Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
Density/relative density
Relative vapour pressure
Particle characteristics

Liquid Colourless No data available. -31 °C 1.4 °C @ Press: 1.0 Torr Flammable liquid and vapour No data available. No data available. 420°C No data available. No data available. No data available. 86 g/L @ 20 °C No data available. No data available. 0.948 No data available. 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.

#### <sup>10.3</sup> 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.

#### <sup>10.4</sup> Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

#### <sup>10.5</sup> Incompatible materials

#### Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

#### 11. Toxicological information

#### 11.1 Information on toxicological effects

#### a) Acute toxicity

Cyclohexanone

4 hr LC50 Rat (Inhalation): 8000 ppm

#### b) Skin corrosion/irritation No data available.

- 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 No data available.

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h)	STOT-single exposu No data available.	ire			
i)	STOT-repeated expo No data available.	osure			
j)					
1)	Aspiration hazard No data available.				
11.2	Symptoms / routes of	of exposure			
	Skin contact		ition and redness at the si	te of contact. There may	be mild irritation at the site of
		contact.		, ,	
	Eye contact	The eyes may wate	er profusely. There may b	e irritation and redness. T	here may be pain and redness.
	Ingestion		ach pain may occur. There mouth and throat. There		nroat. There may be soreness
	Inhalation	Nausea and stoma in the chest. There		may be irritation of the th	nroat with a feeling of tightness
	Delayed / immediate effects		n be expected after long-t re. Nausea and stomach p		effects can be expected after
	Other information	No data available.			
12.	Ecological informati	on			
12.1	Toxicity				
	No data available.				
12.2	Persistence and deg	yradability			
	Biodegradable.				
12.3	Bioaccumulative po	tential			
	No bioaccumulation	potential.			
12.4	Mobility in soil				
	Readily absorbed int	to soil.			
12.5	Results of PBT and	vPvB assessment			
	This substance is no	ot identified as a PBT su	ubstance.		
12.6	Endocrine disrupting	g properties			
	This substance is no	it identified as having e	ndocrine disrupting prope	rties	
12.7	Other adverse effect	ts			
	No data available.				
13.	Disposal considerat	ions			
13.1	Waste treatment me	thods			
	Disposal operations				
	Transfer to a suitable	e container and arrange	e for collection by speciali	sed disposal company.	
	NB				
	The user's attention	is drawn to the possible	e existence of regional or	national regulations rega	rding disposal.
14.	Transport information	วท			
	ADR	IMDG	ΙΑΤΑ	ADN	RID
	14.1. UN number				
			11014045		

UN1915

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14.2. UN proper shipping nar	ne			
CYCLOHEXANONE	CYCLOHEXANONE	Cyclohexanone	CYCLOHEXANONE	CYCLOHEXANONE
Transport document descrip	tion			
UN1915 CYCLOHEXANONE, 3, III	UN1915 CYCLOHEXANONE, 3, III	UN1915 Cyclohexanone, 3, III	UN1915 CYCLOHEXANONE, 3, III	UN1915 CYCLOHEXANONE, 3, III
14.3. Transport hazard class	(es)			
3	3	3	3	3
14.4. Packing group				
III	III	III	III	III
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, plac on the market and use of certain dangerous substances:	ing 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.
Chemical safety assessment	

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	Text

H-Statement Full Texts		
H226	Flammable liquid and vapour	
H332	Harmful if inhaled	
Abbreviations 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%	
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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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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