GX4577 v2.0



## Safety Data Sheet

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#### According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

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Identification of t	ne substance/n	nixture and of the	company/undertaking

#### 1.1 Product identifier

1.

Product code	: GX4577
Product name	: 3-Pentanone
CAS number	: 96-22-0
EINECS	: 202-490-3
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
H335	STOT SE 3
H336	STOT SE 3

#### 2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H225	Highly flammable liquid and vapour
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Precautionary statements	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P241	Use explosion-proof electrical equipment.
Other hazards	

#### 2.3 Other hazards

#### PBT

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

#### 3.1 Substances

**4.** 4.1

4.2

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Name		Identifier	%	Classification	
3-Pentanone		CAS: 96-22-0 EC: 202-490-3 REACH: Not applicable	99.0%	H225, Flam. Liq. 2 H335, STOT SE 3 H336, STOT SE 3	
irst aid measures					
escription of first a	id measures				
Skin contact			•	for 10 minutes or longer if substance is nmediately 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 cor	nscious, give h	alf 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 symp	otoms and effects, both a	acute and delayed			
Skin contact	There may be mild irr	itation at the site of contac	ct.		
Eye contact	There may be irritatio	n and redness.			
Ingestion	There may be irritatio	n of the throat.			
Inhalation	There may be irritatio	n of the throat with a feeli	ng of tightness	s in the chest.	
Delayed / immediate	Delayed effects can b				

#### 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. 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. 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

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.

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#### 7. Handling and storage

#### 7.1 Precautions for safe handling

#### Handling requirements

Avoid the formation or spread of dust in the air. 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

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
Pentan-3-one (96-22-0)	Long-term Exposure Limit (ppm)	200	UK HSE EH40	
	Long-term Exposure Limit (mg m <sup>-3</sup> )	716		
	Short-term Exposure Limit (ppm)	250		
	Short-term Exposure Limit (mg m <sup>-3</sup> )	895		

#### 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.
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	-39 °C
Boiling point/initial boiling point/boiling range	101.9 °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	45.6 g/L @ 25 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	0.816
Relative vapour pressure	No data available.
Particle characteristics	No data available.

#### 9.2 Other information

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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

#### Acute toxicity

a)

C)

#### Pentan-3-one

24 hr LC50 Goldfish (Carassius auratus) (Aquatic): 1200 mg/L 72 hr LC50 Algae (Scenedesmus subspicatus) (Aquatic): >500 mg/L LD50 Rabbit (Dermal): >5000 mg/kg LD50 Rabbit (Dermal): 16200 mg/kg LD50 Mouse (IP): 810 mg/kg LD50 Mouse (IV): 513 mg/kg LD50 Rat (Oral): 2.14 g/kg

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

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.

h) STOT-single exposure

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

#### i) STOT-repeated exposure

No data available.

#### J) Aspiration hazard No data available.

#### 11.2 Symptoms / routes of exposure

Skin contact

There may be mild irritation at the site of contact.

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Eye contact	There may be irritation a	nd redness.					
Ingestion	There may be irritation of	the throat.					
Inhalation	Inhalation There may be irritation of the throat with a feeling of tightness in the chest.						
Delayed / immediate effects	Delayed effects can be e	xpected after long-term	exposure.				
Other information	No data available.						
Ecological information	n						
Toxicity							
No data available.							
Persistence and degra	adability						
Biodegradable.							
Bioaccumulative pote	ntial						
No bioaccumulation po	otential.						
Mobility in soil							
Readily absorbed into	soil.						
Results of PBT and vF	PvB assessment						
This substance is not i	dentified as a PBT substan	ce.					
Endocrine disrupting	properties						
This substance is not i	dentified as having endocri	ne disrupting properties					
Other adverse effects							
No data available.							
Disposal consideratio	ns						
Waste treatment meth	Waste treatment methods						
Disposal operations							
Transfer to a suitable of	container and arrange for c	ollection by specialised	disposal company.				
NB		e					
The user's attention is	drawn to the possible exist	ence of regional or nation	onal regulations regarding d	Isposal.			
Transport information							
ADR	IMDG	ΙΑΤΑ	ADN	RID			
14.1. UN number							
UN1156	UN1156	UN1156	UN1156	UN1156			
14.2. UN proper shipping							
DIETHYL KETONE	DIETHYL KETONE	Diethyl ketone	DIETHYL KETONE	DIETHYL KETONE			
Transport document desc	ription						
UN1156 DIETHYL	UN1156 DIETHYL	UN1156 Diethyl	UN1156 DIETHYL	UN1156 DIETHYL			
KETONE, 3, II	KETONE, 3, II	ketone, 3, II	KETONE, 3, II	KETONE, 3, II			
14.3. Transport hazard cla	ass(es)						
3	3	3	3	3			

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14.4. Packing group	p					
II	II	II	II	II		
14.5. Environmental hazards						
No	No	No	No	No		
NU						
NU						
Regulatory inform	mation					

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

#### Authorisations/Restrictions

15. 15.1

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:	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.

#### 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 Texts

H-Statement Full	Texts
H225	Highly flammable liquid and vapour
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Abbreviations Fu	II Texts
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Wa
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

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
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

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# This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

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