

### Safety Data Sheet

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

1.	Identification of the substance/mixture and of the company/undertaking					
1.1	Product identifier					
	Product code	: GL0905				
	Product name	: Acetoin				
	CAS number	: 513-86-0				
	EINECS	: 208-174-1				
	Physical form	: solid, 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	<sup>1.2</sup> 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
H318	Eye Dam. 1

#### 2.2 Label elements

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

#### Pictograms



Signal words	Danger
Hazard statements	
H226	Flammable liquid and vapour
H318	Causes serious eye damage
Precautionary statements	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P378ab	Dry powder.
P403+P235	Store in a well-ventilated place. Keep cool.
Other hazards	

РВТ

This substance is not identified as a PBT substance.

2.3

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#### 3.1 Substances

**4**.

4.2

Name		Identifier	%	Classification
Acetoin		CAS: 513-86-0 EC: 208-174-1 REACH: Not applicable	98.0%	H226, Flam. Liq. 3 H318, Eye Dam. 1
First aid measures				
Description of first a	id measures			
Skin contact		ted clothes and footwear		longer if substance is still on skin. Inless stuck to skin. Wash immediately
Eye contact	Consult a doctor. Bath	e the eye with running wa	ater for 15 min	utes.
Ingestion	Consult a doctor. Do n Wash out mouth with v	5	scious, give h	alf a litre of water to drink immediately.
Inhalation	Consult a doctor. Rem	ove casualty from expos	ure ensuring o	ne's own safety whilst doing so.
Most important symp	otoms and effects, both a	cute and delayed		
Skin contact	There may be irritation contact.	and redness at the site o	of contact. The	ere may be mild irritation at the site of
Eye contact	The eyes may water p	rofusely. There may be ir	ritation and re	dness.
Ingestion	There may be irritation	of the throat. There may	be soreness	and redness of the mouth and throat.
Inhalation	Exposure may cause on tightness in the chest.	coughing or wheezing. Th	ere may be iri	ritation of the throat with a feeling of
Delayed / immediate effects	Delayed effects can be short-term exposure.	e expected after long-tern	n exposure. In	nmediate effects can be expected after

#### 4.3 Indication of any immediate medical attention and special treatment needed

#### Immediate / special treatment

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. 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

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.



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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

No workplace exposure limit control parameters set

#### 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	Solid
Colour	Yellow
Odour	No data available.
Melting point/Freezing point	No data available.
Boiling point/initial boiling point/boiling range	No data available.
Flammability	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	1.012
Relative vapour pressure	No data available.
Particle characteristics	No data available.

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Other information No data available.

9.2

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	No data available.				
10.	Stability and reacti	vity			
10.1	Reactivity				
	Stable under recom	nmended transport or storage conditions.			
10.2	Chemical stability				
	Stable at room tem	perature. Stable under normal conditions.			
10.3	Possibility of haza	rdous reactions			
	Hazardous reactions				
	Decomposition may transport or storage	y occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under no			
10.4	Conditions to avoid	d			
	Flames. Hot surfac	es. Sources of ignition. Heat.			
10.5	Incompatible mate	rials			
	Materials to avoid				
	Strong acids. Stron	g oxidising agents.			
11.	Toxicological infor	mation			
11.1	Information on tox	icological effects			
a)	Acute toxicity No data available.				
b)	<b>Skin corrosion/irrit</b> No data available.	ation			
c)	Serious eye damag	je/irritation			
	Serious eye damag	ge/eye irritation (Category 1)			
d)	<b>Respiratory or skir</b> No data available.	a sensitisation			
e)	<b>Germ cell mutagen</b> No data available.	icity			
f)	<b>Carcinogenicity</b> No data available.				
g)	Reproductive toxic	ity			
	No data available.				
h)	STOT-single exposes No data available.	ure			
i)	STOT-repeated exp No data available.	oosure			
j)	Aspiration hazard No data available.				
	Symptoms / routes 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.			

## Inhalation Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest.

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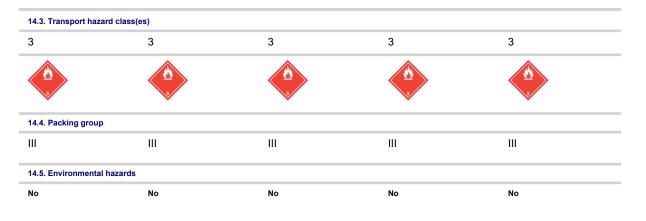
Delayed / immediate effects	Delayed effects can short-term exposure		erm exposure. Immediate e	effects can be expected after
Other information	No data available.			
Information on other	hazards			
Endocrine disrupting p	properties			
This product does no	t contain known or sus	pected endocrine disrupto	ors according to REACH or	relevant EU Regulations.
Other information				
No additional information	ation			
Ecological information	on			
Toxicity				
No data available.				
Persistence and deg	radability			
Biodegradable.				
Bioaccumulative pot	ential			
No bioaccumulation	potential.			
Mobility in soil				
Readily absorbed into	o soil.			
Results of PBT and v	/PvB assessment			
This substance is not	t identified as a PBT su	bstance.		
Endocrine disrupting	g properties			
This substance is not	t identified as having en	docrine disrupting proper	ties	
Other adverse effect	s			
No data available.				
Disposal considerati	ons			
Waste treatment met	thods			
Disposal operations				
Transfer to a suitable	e container and arrange	for collection by specialis	ed disposal company.	
NB				
The user's attention i	s drawn to the possible	existence of regional or i	national regulations regard	ing disposal.
Transport informatio	n			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN2621	UN2621	UN2621	UN2621	UN2621
14.2. UN proper shipping	g name			

ACETYL METHYL CARBINOL	ACETYL METHYL CARBINOL	Acetyl methyl carbinol	ACETYL METHYL CARBINOL	ACETYL METHYL CARBINOL
Transport document descript	ion			
UN2621 ACETYL METHYL CARBINOL, 3, III	UN2621 ACETYL METHYL CARBINOL, 3, III	UN2621 Acetyl methyl carbinol, 3, III	UN2621 ACETYL METHYL CARBINOL, 3, III	UN2621 ACETYL METHYL CARBINOL, 3, III

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#### 15. Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1	Safety, nearth 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) 2020/878.

Au	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:	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
H226	Flammable liquid and vapour
H318	Causes serious eye damage
Abbreviations Fu	ıll 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



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REACH RID SC	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations Concerning the International Carriage of Dangerous Goods by Rail 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) 2020/878.

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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