GS5432 v3.0

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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	:	GS5432
Product name	:	Butan-1-ol, GlenDry™, anhydrous
CAS number	:	71-36-3
EINECS	:	200-751-6
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
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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
H302	Acute Tox. 4
H315	Skin Irr. 2
H318	Eye Dam. 1
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	
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P312	Call a POISON CENTER or doctor/ if you feel unwell.

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Other hazards	Avoid breathing vapors.
P261	Avoid breathing vapors.
P241	Use explosion-proof electrical equipment.
P264	Do not breathe fume.
P403+P235	Store in a well-ventilated place. Keep cool.

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
Butan-1-ol, GlenDry™, anhydrous	CAS: 71-36-3 EC: 200-751-6 REACH: Not applicable	99.8%	H226, Flam. Liq. 3 H302, Acute Tox. 4 H315, Skin Irr. 2 H318, Eye Dam. 1 H335, STOT SE 3 H336, STOT SE 3

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. Transfer to hospital as soon as possible. Wash out mouth with water.
Inhalation	Transfer to hospital as soon as possible. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.

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. There may be pain and redness.
Ingestion	Nausea and stomach pain may occur. There may be difficulty swallowing. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. 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. 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

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
Butan-1-ol (71-36-3)	Short-term Exposure Limit (ppm)	50	Sk	UK HSE EH40/2005
	Short-term Exposure Limit (mg m ⁻³)	154	-	

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.

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	Skin protection Protective clothing.	
	Physical and chemical properties	
	Information on basic physical and chemical	properties
	Physical state	Liquid
	Colour	Colourless
	Odour	No data available.
	Melting point/Freezing point	-90 °C ue 117.7 °C
	Boiling point/initial boiling point/boiling rang Flammability	
	Lower/Upper explosion limit	Flammable liquid and vapour No data available.
	Flash Point	No data available.
	Auto-ignition temperature	355°C
	Decomposition temperature	No data available.
	pH	No data available.
	Kinematic viscosity	No data available.
	Solubility Partition coefficient n-octanol/water	66 g/L @ 20 °C No data available.
	Vapour pressure	No data available.
	Density/relative density	0.810
	Relative vapour pressure	No data available.
	Particle characteristics	No data available.
2	Other information	
	No data available.	
).	Stability and reactivity	
.1	Reactivity	
	Stable under recommended transport or stora	age conditions.
.2	Chemical stability	
	Stable at room temperature. Stable under nor	mal conditions.
.3	Possibility of hazardous reactions	
	Hazardous reactions	
	Decomposition may occur on exposure to cor transport or storage conditions.	nditions or materials listed below. Hazardous reactions will not occur under normal
.4	Conditions to avoid	
	Flames. Hot surfaces. Sources of ignition. He	at.
.5	Incompatible materials	
	Materials to avoid	
	Carbon dioxide. Strong acids. Strong oxidising	g agents.
1.	Toxicological information	
.1	Information on toxicological effects	
	Acute toxicity Butan-1-ol	
	48 hr EC50 Waterflea (Daphnia magna) (Aqu	atic): 1982 mg/L
	24 hr EC50 Waterflea (Daphnia magna) (Aqu	atic): 2337 mg/L
	LD50 Rabbit (Dermal): 4.2 g/kg	
	4 hr LC50 Rat (Inhalation): 8000 ppm	
	LD50 Rat (IV): 310 mg/kg	
	LD50 Rat (Oral): 0.79-4.36 g/kg	
	Skin corrosion/irritation	
	Skin corrosion/irritation (Category 2)	
	Serious eye damage/irritation	
	Serious eye damage/irritation Serious eye damage/eye irritation (Category 7	1)
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d)	Respiratory or skin se No data available.	isitisation	
e)	Germ cell mutagenicity No data available.	1	
f)	Carcinogenicity No data available.		
g)	Reproductive toxicity No data available.		
h)	STOT-single exposure Specific target organ to	exicity, single exposure; Respiratory tract irritation (Category 3)	
i)	STOT-repeated exposure No data available.		
j)	Aspiration hazard No data available.		
	Symptoms / routes of	exposure	
	Skin contact	·	
	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. There may be pain and redness.	
	Ingestion	Nausea and stomach pain may occur. There may be difficulty swallowing. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.	
	Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. 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.	
11.2	Information on other h	azards	
11.2.1	Endocrine disrupting pro	perties	
	This product does not o	contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.	
11.2.2	Other information		
	No additional information	nc	
12.	Ecological information		
12.1	Toxicity		
	24 hr EC50 Algae (Ente	eromorpha intestinalis): 135 mmol/L	
12.2	Persistence and degra	dability	
	Biodegradable.		
12.3	Bioaccumulative poter	itial	
	No bioaccumulation po	tential.	
12.4	Mobility in soil		
	Readily absorbed into	soil.	
12.5	Results of PBT and vP	vB assessment	
	This substance is not id	dentified as a PBT substance.	
12.6	Endocrine disrupting p	properties	
	This substance is not id	dentified as having endocrine disrupting properties	
12.7	Other adverse effects		
	No data available.		
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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				
UN1120	UN1120	UN1120	UN1120	UN1120
14.2. UN proper shipping nan	ne			
BUTANOLS	BUTANOLS	Butanols	BUTANOLS	BUTANOLS
Transport document descript	lion			
UN1120 BUTANOLS, 3, III	UN1120 BUTANOLS, 3, III	UN1120 Butanols, 3, III	UN1120 BUTANOLS, 3, III	UN1120 BUTANOLS, 3, III
14.3. Transport hazard class(es)			
3	3	3	3	3
14.4. Packing group				
III	III	III	III	Ш
14.5. Environmental hazards				
No	No	No	No	No

15. Regulatory information

15

5.1 Safety, health and environmental regulations/legislation specific for the substance or m	
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This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

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, placi 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.

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

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H226	Flammable liquid and vapour
H302	Harmful if swallowed
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H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Abbreviations Ful	•
Abbreviations Ful ADN ADR ALARP CAS CLP COSHH EC Number EC50 EILINCS EINECS GHS HSE	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
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

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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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