GK7966 v3.0



Safety Data Sheet

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Identification of the	e substance/mixture and of the company/undertaking
Product identifier	
Product code Product name CAS number EINECS Physical form REACH	 GK7966 Benzalkonium chloride, 50% solution in water 63449-41-2 264-151-6 liquid, mixture 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.
Relevant identified	uses of the substance or mixture and uses advised against
PC21: Laboratory of	
Details of the supp	lier 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
Emergency telepho	one number
Emergency telepho number	one : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)
Hazards identificat	ion
	ion e substance or mixture
Classification of th	
Classification of th	e substance or mixture
Classification of th Classification under CL	e substance or mixture P according to (EC) 1272/2008
Classification of th Classification under CL H302	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4
Classification of th Classification under CL H302 H314	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B
Classification of th Classification under CL H302 H314 H400 Label elements	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B
Classification of th Classification under CL H302 H314 H400 Label elements	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1
Classification of th Classification under CL H302 H314 H400 Label elements Label elements under C	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 $\overbrace{GHS05}^{VOP} GHS07 GHS09$ Danger
Classification of th Classification under CL H302 H314 H400 Label elements Label elements under C Pictograms	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 $\overrightarrow{OHS05}$ GHS07 GHS09 Danger
Classification of the Classification under CL H302 H314 H400 Label elements Label elements under C Pictograms Signal words Hazard statements H302 H314	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 GHS05 GHS07 GHS09 Danger Nampful if swallowed Causes severe skin burns and eye damage
Classification of the Classification under CL H302 H314 H400 Label elements Label elements under C Pictograms Signal words Hazard statements H302 H314 H400	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 CFS GHS05 GHS07 GHS09 Danger Note: State of the substance
Classification of the Classification under CL H302 H314 H400 Label elements Label elements under C Pictograms Signal words Hazard statements H302 H314 H400 Precautionary statements	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 CFS GHS05 GHS07 GHS09 Danger S Harmful if swallowed Causes severe skin burns and eye damage Very toxic to aquatic life tements
Classification of the Classification under CL H302 H314 H400 Label elements Label elements under C Pictograms Signal words Hazard statements H302 H314 H400	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 CFS GHS05 GHS07 GHS09 Danger Note: State of the substance
Classification of the Classification under CLI H302 H314 H400 Label elements Label elements under C Pictograms Signal words Hazard statements H302 H314 H400 Precautionary stat P260 P280 P301+P312	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 CHS05 GHS07 GHS09 Danger Marmful if swallowed Causes severe skin burns and eye damage Very toxic to aquatic life tements Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.
Classification of the Classification under CL H302 H314 H400 Label elements Label elements under C Pictograms Signal words Hazard statements H302 H314 H400 Precautionary stat P260 P280	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 LP according to (EC) 1272/2008 Danger Danger Harmful if swallowed Causes severe skin burns and eye damage Very toxic to aquatic life tements Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present a
Classification of the Classification under CLI H302 H314 H400 Label elements Label elements under C Pictograms Signal words Hazard statements H302 H314 H400 Precautionary stat P260 P280 P301+P312	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 CHS05 GHS07 GHS09 Danger Marmful if swallowed Causes severe skin burns and eye damage Very toxic to aquatic life tements Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.
Classification of the Classification under CLI H302 H314 H400 Label elements Label elements under C Pictograms Signal words Hazard statements H302 H314 H400 Precautionary stat P260 P280 P301+P312 P305+P351+P338	e substance or mixture P according to (EC) 1272/2008 Acute Tox. 4 Skin Corr. 1B Aquatic Acute 1 LP according to (EC) 1272/2008 LP according to (EC) 1272/2008

3.0 Composition/information on ingredients

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3.2 Mixtures

4. 4.1

4.2

Name		Identifier	%	Classification
Benzalkonium chloride		CAS: 63449-41-2 EC: 264-151-6 REACH: Not applicable	50	H302, Acute Tox. 4 H312, Acute Tox. 4 H314, Skin Corr. 1B H400, Aquatic Acute 1
irst aid measures escription of first a	id measures			
Skin contact	Remove all contaminated	d clothes and footwear i	mmediately	or longer if substance is still on skin. / unless stuck to skin. Transfer to hospital ttely with plenty of soap and water.
Eye contact	Transfer to hospital for s	pecialist examination. B	athe the ey	e with running water for 15 minutes.
Ingestion	Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If conscious, give half a litre water to drink immediately. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Wash out mouth with water.			
Inhalation lost important symp	ensure the casualty sits of position. If unconscious,	or lies down. If unconsci check for breathing and ible. Consult a doctor. F	ous and bro apply artifi	ide oxygen if available. If conscious, eathing is OK, place in the recovery cial respiration if necessary. Transfer to sualty from exposure ensuring one's own
Skin contact	Blistering may occur. Pro mild irritation at the site o	-	occur if trea	atment is not immediate. There may be
Eye contact	Corneal burns may occu There may be pain and r		t damage. ⁻	There may be irritation and redness.
Ingestion	occur. There may be ble	eding from the mouth or	nose. Ther	d the lips. Nausea and stomach pain may re may be difficulty swallowing. There may ess of the mouth and throat. There may be
Inhalation	may cause coughing or v	wheezing. Nausea and so of tightness in the chest.	stomach pa	similar to those of ingestion. Exposure in may occur. There may be irritation of / be shortness of breath with a burning
Delayed / immediate effects	Immediate effects can be	e expected after short-te	rm exposu	re. 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

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

Corrosive. In combustion emits toxic fumes.

5.3 Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. 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.

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. 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. Keep container tightly closed. 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 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	Tightly fitting safety goggles. 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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Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH ' Hq	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	No data available.
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

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions.

^{10.3} 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

Heat.

^{10.5} Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

No data available.

b) Skin corrosion/irritation

Skin corrosion/irritation (Category 1B)

- 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.
- h) STOT-single exposure No data available.
- i) STOT-repeated exposure No data available.
- j) Aspiration hazardNo data available.



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Symptoms /	routes	of exposure

Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be mild irritation at the site of contact.
Eye contact	Corneal burns may occur. May cause permanent damage. There may be irritation and redness. There may be pain and redness.
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. 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 shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose.
Other information	No data available.
Information on other	hazards
Endocrine disrupting p	properties
This product does no	t contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.
Other information	
No additional informa	tion
Ecological information	on
Toxicity	
No data available.	
Persistence and deg	radability
No data available.	
Bioaccumulative pot	ential
No data available.	
Mobility in soil	
Readily absorbed into	o soil.
Results of PBT and v	/PvB assessment
This substance is not	identified as a PBT substance.
Endocrine disrupting) properties
This substance is not	identified as having endocrine disrupting properties
Other adverse effects	S
No data available.	
Disposal considerati	ons
Waste treatment met	hods
Disposal operations	container and arrange for collection by an ciclicad dispaced company
I ransfer to a suitable	container and arrange for collection by specialised disposal company.

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14.

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN3265	UN3265	UN3265	UN3265	UN3265
14.2. UN proper shipping n	ame			
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	Corrosive liquid, acidic, organic, n.o.s.	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Transport document descr	iption			
UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (BENZALKONIUM CHLORIDE, 50% SOLUTION IN WATER), 8, II	UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (BENZALKONIUM CHLORIDE, 50% SOLUTION IN WATER), 8, II	UN3265 Corrosive liquid, acidic, organic, n.o.s. (Benzalkonium chloride, 50% solution in water), 8, II	UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (BENZALKONIUM CHLORIDE, 50% SOLUTION IN WATER), 8, II	UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (BENZALKONIUM CHLORIDE, 50% SOLUTION IN WATER), 8, II
14.3. Transport hazard clas	ss(es)			
8	8	8	8	8
and the second s	8	*	a a construction of the second s	8
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazard	ls			
No	No	No	No	No

15. Regulatory information

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, 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.
•he	minel asfety approximate	

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

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H400	Very toxic to aquatic life

Abbreviations Full Texts

^{15.1} Safety, health and environmental regulations/legislation specific for the substance or mixture

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ADN ADR ALARP CAS CLP COSHH EC Number EC50	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%
EILINCS EINECS	European List of Notified Chemical Substances
GHS	European Inventory of Existing Commercial Chemical Substances 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 STEL	Safety Data Sheet
STOT	Short Term Exposure Limit Specific Target Organ Toxicity
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits
VVLL	

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

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