GK7759 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	: GK7759
Product name	: Ethyl bromodifluoroacetate
CAS number	: 667-27-6
EINECS	: 211-567-0
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

1225	Flam. Liq. 2
-1314	Skin Corr. 1B

2.2 Label elements

F

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

Pictograms



Signal words	Danger				
Hazard statements					
H225	Highly flammable liquid and vapour				
H314	Causes severe skin burns and eye damage				
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.				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.				
P310	Immediately call a POISON CENTER or doctor/physician.				
P260	Do not breathe vapors.				
P264	Do not breathe fume.				
P241	Use explosion-proof electrical equipment.				
Other hazards					
РВТ					
This substance is not identifi	This substance is not identified as a PBT substance.				

2.3

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3.1 Substances

4.

4.2

4.3

		Identifier	%	Classification
Ethyl bromodifluoroacetate		CAS: 667-27-6 EC: 211-567-0 REACH: Not applicable	98.0%	H225, Flam. Liq. 2 H314, Skin Corr. 1B
irst aid measures				
escription of first a	id measures			
Skin contact	still on skin. Remove a		nd footwear in	for 10 minutes or longer if substance is nmediately unless stuck to skin. ng.
Eye contact	Consult a doctor. Trans 15 minutes.	sfer to hospital for specia	list examinatio	n. Bathe the eye with running water for
Ingestion	give half a litre of wate recovery position. If un	r to drink immediately. If a	unconscious a athing and app	to drink every 10 minutes. If conscious, nd breathing is OK, place in the oly artificial respiration if necessary. n water.
Inhalation	ensure the casualty site position. If unconscious	s or lies down. If unconso s, check for breathing and	ious and brea d apply artificia	e oxygen if available. If conscious, thing is OK, place in the recovery al respiration if necessary. Transfer to alty from exposure ensuring one's own
ost important sym	otoms and effects, both ac	cute and delayed		
Skin contact	Blistering may occur. F mild irritation at the site	-	occur if treatr	nent is not immediate. There may be
	Corneal burns may occ	cur. May cause permaner	nt damage. Th	ere may be irritation and redness.
Eye contact			near around th	
Eye contact Ingestion		Corrosive burns may ap may be irritation of the th		ne lips. There may be bleeding from the
-	mouth or nose. There r Exposure may cause c	may be irritation of the thi oughing or wheezing. Th	oat. ere may be irr	itation of the throat with a feeling of a burning sensation in the throat.

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. Use water spray to cool containers. Water spray.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

Corrosive. 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

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Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Eliminate all sources of ignition. 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. 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	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

Physical state	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	No data available.
Boiling point/initial boiling point/boiling range	113 °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.
pH	No data available.

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Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
Density/relative density
Relative vapour pressure
Particle characteristics

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.

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.

No data available. No data available. No data available. No data available.

No data available. No data available.

1.583

^{10.4} Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

^{10.5} Incompatible materials

Materials to avoid

Carbon dioxide. 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.
 - Symptoms / routes of exposure

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	Skin contact	Blistering may occur. Pro mild irritation at the site o	•	ccur if treatment is not im	mediate. There may be
	Eye contact	Corneal burns may occur	. May cause permanent	damage. There may be in	ritation and redness.
	Ingestion	Blood may be vomited. C mouth or nose. There ma			may be bleeding from the
	Inhalation			e may be irritation of the t breath with a burning ser	
	Delayed / immediate effects	Delayed effects can be e short-term exposure. The		exposure. Immediate effect the mouth or nose.	ts can be expected after
	Other information	No data available.			
	Information on other h	azards			
.1	Endocrine disrupting pro	operties			
	This product does not o	contain known or suspecte	d endocrine disruptors a	ccording to REACH or rele	evant EU Regulations.
.2	Other information				
	No additional information	on			
	Ecological information	ı			
	Toxicity				
	No data available.				
	Persistence and degra	dability			
	Biodegradable.				
	Bioaccumulative poter	ntial			
	No bioaccumulation po	tential.			
	Mobility in soil				
	Readily absorbed into	soil.			
	Results of PBT and vP	vB 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 consideration	าร			
1	Waste treatment method	ods			
	Disposal operations				
		container and arrange for c	ollection by specialised c	isposal company.	
	NB	drown to the needled and the	once of regional surgest	nal regulations re-	dianaaal
	The user's attention is	drawn to the possible exist	ence of regional or natio	nal regulations regarding	disposal.
	Transport information				
	ADR	IMDG	ΙΑΤΑ	ADN	RID
	14.1. UN number				
	UN3272	UN3272	UN3272	UN3272	UN3272
	14.2. UN proper shipping r	name			
	ESTERS, N.O.S.	ESTERS, N.O.S.	Esters, n.o.s.	ESTERS, N.O.S.	ESTERS, N.O.S.

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Transport document descrip	tion			
UN3272 ESTERS, N.O.S. (ETHYL BRO MODIFLUOROACET ATE), 3, II	UN3272 ESTERS, N.O.S. (ETHYL BRO MODIFLUOROACET ATE), 3, II	UN3272 Esters, n.o.s. (Ethyl bromodifl uoroacetate), 3, II	UN3272 ESTERS, N.O.S. (ETHYL BRO MODIFLUOROACET ATE), 3, II	UN3272 ESTERS, N.O.S. (ETHYL BRO MODIFLUOROACET ATE), 3, II
14.3. Transport hazard class	(es)			
3	3	3	3	3
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Νο	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) 2020/878.

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

n-Statement Full Texts			
	H225	Highly flammable liquid and vapour	
	H314	Causes severe skin burns and eye damage	
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) 2020/878.

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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