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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 : GK1240

Product name : Beryllium fluoride, 33% (w/w) aqueous solution

CAS number : 7787-49-7 **EINECS** : 232-118-5 Physical form : liquid, mixture

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

#### **Hazards identification** 2.

#### 2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H301 Acute Tox. 3 H311 Acute Tox. 3 H314 Skin Corr. 1B H330 Acute Tox. 1 H350 Carc. 1B H372 STOT RE 1 H411 Aquatic Chronic 2

#### 2.2 Label elements

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

#### **Pictograms**









Danger

#### Signal words **Hazard statements**

H301 Toxic if swallowed H311 Toxic in contact with skin

H314 Causes severe skin burns and eye damage

H330 Fatal if inhaled H350 May cause cancer

H372 Causes damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects

#### **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do - continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. P310

P361 Take off immediately all contaminated clothing.

P264 Do not breathe fume.

#### 2.3 Other hazards

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

#### 3.2 Mixtures

Name	Identifier	%	Classification
Beryllium fluoride	CAS: 7787-49-7 EC: REACH: Not applicable	33	H301, Acute Tox. 3 H315, Skin Irr. 2 H317, Skin Sens. 1 H319, Eye Irr. 2A H330, Acute Tox. 2
			H335, STOT SE 3 H350i, Carc. 1B H372, STOT RE 1

#### 4. First aid measures

#### 4.1 Description of first aid measures

Skin contact	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. Transfer to hospital if there are burns or symptoms of poisoning. Wash immediately with plenty of soap and water.
Eye contact	Transfer to hospital for specialist examination. Bathe the eye 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 of 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	If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. 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. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.
Most important sym	nptoms and effects, both acute and delayed

Skin contact	Absorption through the skin may be fatal. Blistering may occur. Irritation or pain may occur at the site of contact. Progressive ulceration will occur if treatment is not immediate. There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.
Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness. There may be severe pain.
Ingestion	Blood may be vomited. Convulsions may occur. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. There may be irritation of the throat. There may be loss of consciousness. 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. Convulsions may occur. Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Convulsions may occur. Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose. There may be loss of consciousness.

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

#### Immediate / special treatmen

Do not induce vomiting. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. 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. Toxic.

#### 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 attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Evacuate the area immediately. 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

Alert the neighbourhood to the presence of fumes or gas. 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 exhaust ventilation of the area. 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

Ensure there is exhaust ventilation of the area. Ensure there is sufficient ventilation of the area.

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Respiratory protection	Particle filter class P1 (EN143). Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Protective gloves.
Eye protection	Safety glasses with side-shields. 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 Colour Colourless Odour No data available. Melting point/Freezing point 555 °C Boiling point/initial boiling point/boiling range 1160 °C No data available. Flammability Lower/Upper explosion limit No data available. Flash Point No data available. No data available. Auto-ignition temperature No data available Decomposition temperature рΗ No data available. Kinematic viscosity No data available. Solubility No data available. Partition coefficient n-octanol/water No data available. No data available. Vapour pressure Density/relative density 1.986 Relative vapour pressure No data available.

9.2 Other information

No data available.

Particle characteristics

#### 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.

No data available.

### 10.4 Conditions to avoid

Flames. Hot surfaces. 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.

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#### d) Respiratory or skin sensitisation

No data available.

#### e) Germ cell mutagenicity

No data available.

#### f) Carcinogenicity

Carcinogenicity (Category 1B)

### g) Reproductive toxicity

No data available.

### h) STOT-single exposure

No data available.

#### i) STOT-repeated exposure

Specific target organ toxicity, repeated exposure (Category 1)

#### j) Aspiration hazard

No data available.

### 11.2 Symptoms / routes of exposure

Skin contact	Absorption through the skin may be fatal. Blistering may occur. Irritation or pain may occur at the site of contact. Progressive ulceration will occur if treatment is not immediate. There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.
Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness. There may be severe pain.
Ingestion	Blood may be vomited. Convulsions may occur. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. There may be irritation of the throat. There may be loss of consciousness. 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. Convulsions may occur. Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Convulsions may occur. Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose. There may be loss of consciousness.
Other information	No data available.

## 12. Ecological information

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

Not biodegradable.

## 12.3 Bioaccumulative potential

Bioaccumulation potential.

#### 12.4 Mobility in soil

Readily absorbed into soil.

#### 12.5 Results of PBT and vPvB assessment

This substance is not identified as a PBT substance.

## 12.6 Endocrine disrupting properties

This substance is not identified as having endocrine disrupting properties

#### 12.7 Other adverse effects

No data available.

### 13. Disposal considerations

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#### 13.1 Waste treatment methods

Disposal operations

Transfer to a suitable container and arrange for collection by specialised disposal company.

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The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### 14. Transport information

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN1566	UN1566	UN1566	UN1566	UN1566
14.2. UN proper shipping nan	ne			
BERYLLIUM COMPOUND, N.O.S.	BERYLLIUM COMPOUND, N.O.S.	Beryllium compound, n.o.s.	BERYLLIUM COMPOUND, N.O.S.	BERYLLIUM COMPOUND, N.O.S.
Transport document descript	tion			
UN1566 BERYLLIUM COMPOUND, N.O.S. (BERYLLIUM FLUORIDE, 33% (W/W) AQUEOUS SOLUTION), 6.1, II	UN1566 BERYLLIUM COMPOUND, N.O.S. (BERYLLIUM FLUORIDE, 33% (W/W) AQUEOUS SOLUTION), 6.1, II	UN1566 Beryllium compound, n.o.s. (Beryllium fluoride, 33% (w/w) aqueous solution), 6.1, II	UN1566 BERYLLIUM COMPOUND, N.O.S. (BERYLLIUM FLUORIDE, 33% (W/W) AQUEOUS SOLUTION), 6.1, II	UN1566 BERYLLIUM COMPOUND, N.O.S. (BERYLLIUM FLUORIDE, 33% (W/W) AQUEOUS SOLUTION), 6.1, II
14.3. Transport hazard class(	(es)			
6.1	6.1	6.1	6.1	6.1
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	6
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
No	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) 2020/787.

## Authorisations/Restrictions

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing No data available. on the market and use of certain dangerous substances:

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

No data available.

2019/1021:

#### 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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H301 Toxic if swallowed H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H330 Fatal if inhaled

H335 May cause respiratory irritation H350i May cause cancer by inhalation

H372 Causes damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects

#### **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 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) 2020/787.

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