1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Beryllium fluoride, 33% (w/w) aqueous solution
Product code: GK1240
CAS number: 7787-49-7
EINECS: 232-118-5

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
Fax: +44 (0) 2033 978 909
Edinburgh Way
Corsham
Wiltshire, SN13 9XN
Email: info@glentham.com
Web: www.glentham.com

1.4 Emergency telephone number

Emergency telephone number: +44 (0) 1225 667 798 (09.00 - 17.00 GMT)

1.5 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.

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP

2.2 Label elements

Label elements under CLP

Pictograms

Signal words
Danger

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.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P201 Obtain special instructions before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P284 Wear respiratory protection.
P361 Remove/Take off immediately all contaminated clothing.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair) : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P310 Immediately call a POISON CENTER or doctor/physician.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards

PBT
This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances
4.0 First aid measures

4.1 Description of first aid measures

**Skin contact**
Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact**
Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion**
Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation**
Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so. 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. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

4.2 Most important symptoms and effects, both acute and delayed

**Skin contact**
There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Blistering may occur. Progressive ulceration will occur if treatment is not immediate. Absorption through the skin may be fatal.

**Eye contact**
There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur. May cause permanent damage.

**Ingestion**
There may be soreness and redness of the mouth and throat. Corrosive burns may appear around the lips. There may be vomiting. Blood may be vomited. There may be bleeding from the mouth or nose. Convulsions may occur. There may be loss of consciousness. There may be irritation of the throat.

**Inhalation**
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. Exposure may cause coughing or wheezing. There may be loss of consciousness. Convulsions may occur. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

**Delayed / immediate effects**
Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment**
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. Eye bathing equipment should be available on the premises. Not applicable.

5.0 Fire-fighting measures

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

5.2 Special hazards arising from the substance or mixture

**Exposure hazards**

5.3 Advice for fire-fighters
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6.0 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

**Personal precautions**
Refer to section 8 of SDS for personal protection details. Notify the police and fire brigade immediately. If outside do not approach from downwind. It outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Evacuate the area immediately.

6.2 Environmental precautions
Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas.

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. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

6.3 Reference to other sections
Refer to section 8 of SDS.

7.0 Handling and storage
7.1 Precautions for safe handling
Handling requirements
Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Avoid direct contact with the substance.

7.2 Conditions for safe storage, including any incompatibilities
Storage conditions
Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity.

7.3 Specific end use(s)
No data available.

8.0 Exposure controls/personal protection
8.1 Control parameters
Workplace exposure limits
Not applicable.

8.2 Exposure controls
Engineering measures
Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area. Not applicable.

Respiratory protection
Respiratory protective device with particle filter. Particle filter class P1 (EN143). Self-contained breathing apparatus must be available in case of emergency.

Hand protection
Protective gloves.

Eye protection
Safety glasses. Safety glasses with side-shields. Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection
Protective clothing.

9.0 Physical and chemical properties
9.1 Information on basic physical and chemical properties
Physical Form: Liquid
Colour: Colourless

9.2 Other information
Not applicable.

10.0 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
Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

10.5 Incompatible materials
Materials to avoid
Strong acids. Strong oxidising agents.

11.0 Toxicological information

11.1 Information on toxicological effects
Toxicity values
Not applicable.

11.2 Information on toxicological effects
Skin contact
There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Blistering may occur. Progressive ulceration will occur if treatment is not immediate. Absorption through the skin may be fatal.

Eye contact
There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur. May cause permanent damage.

Ingestion
There may be soreness and redness of the mouth and throat. Corrosive burns may appear around the lips. There may be vomiting. Blood may be vomited. There may be bleeding from the mouth or nose. Convulsions may occur. There may be loss of consciousness. There may be irritation of the throat.

Inhalation
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. Exposure may cause coughing or wheezing. There may be loss of consciousness. Convulsions may occur. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects
Immediate effects can be expected after short-term exposure.

Other information

12.0 Ecological information

12.1 Toxicity
Not applicable.

12.2 Persistence and degradability
Not biodegradable. Biodegradable.

12.3 Bioaccumulative potential
No bioaccumulation 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 Other adverse effects
Negligible ecotoxicity. Toxic to aquatic organisms.

13.0 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.

14.0 Transport information
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<th>Description</th>
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<td>14.2</td>
<td>UN proper shipping name</td>
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<td>14.6</td>
<td>Special precautions for user</td>
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15.0 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Not applicable.

Chemical Safety Assessment
A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16.0 Other information

Other information
This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Legal disclaimer
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 company shall not be held liable for any damage resulting from handling or from contact with the above product.