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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 : GX1493

Product name : Lithium fluoride, 99.9%

CAS number : 7789-24-4
Physical form : solid, 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

H302 Acute Tox. 4 H319 Eye Irr. 2A

2.2 Label elements

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

Pictograms



Signal words Warning

Hazard statements

H302 Harmful if swallowed
H319 Causes serious eye irritation

EUH032 Contact with acids liberates very toxic gas.

Precautionary statements

P264 Wash face, hands and any exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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.

2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

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| Name | Identifier | % | Classification |
|-------------------------|---|-------|---|
| Lithium fluoride, 99.9% | CAS: 7789-24-4 EC: REACH: Not applicable | 99.9% | H302, Acute Tox. 4 H319, Eye Irr. 2A |

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. Transfer to hospital if there are burns or symptoms of poisoning. Wash immediately with plenty of soap and water. |
|--------------|--|
| Eye contact | Consult a doctor. Transfer to hospital for specialist examination. 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. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible. Wash out mouth with water. |
| Inhalation | If unconscious and breathing is OK, place in the recovery position. 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. | |
|-----------------------------|---|--|
| 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. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and 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. | |
| Delayed / immediate effects | 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. 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

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

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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 | Safety glasses with side-shields. 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 Solid Colour White No data available. Odour Melting point/Freezing point 846 °C Boiling point/initial boiling point/boiling range 1681 °C No data available. Flammability Lower/Upper explosion limit No data available. Flash Point No data available.

Auto-ignition temperature

Decomposition temperature

pH

No data available.

No data available.

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

No data available. 1.3 g/L @ 25 °C No data available. No data available. 2.640 No data available

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

No data available.

c) Serious eye damage/irritation

Serious eye damage/eye irritation (Category 2A)

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 hazard

No data available.

11.2 Symptoms / routes of exposure

Skin contact

There may be irritation and redness at the site of contact.

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| 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. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and 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. |
| Delayed / immediate effects | Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. |
| Other information | No data available. |

12. Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No 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

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 | IATA | ADN | RID |
|-----------------------------------|-----------------------------------|--------------------------------|-----------------------------------|-----------------------------------|
| 14.1. UN number | | | | |
| UN3288 | UN3288 | UN3288 | UN3288 | UN3288 |
| 14.2. UN proper shipping name | | | | |
| TOXIC SOLID, INORGANIC, N.O.S. | TOXIC SOLID, INORGANIC, N.O.S. | Toxic solid, inorganic, n.o.s. | TOXIC SOLID, INORGANIC, N.O.S. | TOXIC SOLID, INORGANIC, N.O.S. |

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| Transport | document | description |
|-----------|----------|-------------|
| Hallsbull | uocument | uescribuon |

UN3288 TOXIC SOLID, INORGANIC, N.O.S. (LITHIUM FLUORIDE, 99.9%), 6.1. III

UN3288 TOXIC SOLID, INORGANIC, N.O.S. (LITHIUM FLUORIDE, 99.9%), 6.1. III

UN3288 Toxic solid, inorganic, n.o.s. (Lithium fluoride, 99.9%), 6.1, III

UN3288 TOXIC SOLID, INORGANIC, N.O.S. (LITHIUM FLUORIDE, 99.9%), 6.1, III

UN3288 TOXIC SOLID, INORGANIC, N.O.S. (LITHIUM FLUORIDE, 99.9%), 6.1, III

14.3. Transport hazard class(es)

6.1

6.1

6.1

6.1

6.1





Ш

No







14.4. Packing group

Ш

Ш

No

Ш

Ш

14.5. Environmental hazards

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

No data available.

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

2019/1021:

No data available.

Chemical safety assessment

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

16. Other information

15.2

H-Statement Full Texts

H302 Harmful if swallowed H319 Causes serious eye irritation

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

European Community Number EC Number EC50 Effective Concentration 50%

European List of Notified Chemical Substances FILINGS

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

IΡ 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) 2020/787.

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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