GX3712 v2.0

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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	: GX3712
Product name	: Cesium fluoride, 99.99%
CAS number	: 13400-13-0
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

H301	Acute Tox. 3
H311	Acute Tox. 3
H315	Skin Irr. 2
H318	Eye Dam. 1
H331	Acute Tox. 3
H361	Repr. 2

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H331	Toxic if inhaled
H361	Suspected of damaging fertility or the unborn child
EUH032	Contact with acids liberates very toxic gas.
Precautionary statements	
P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep 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.

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P330 Rinse mouth. P264 Wash face, hands and any exposed skin thoroughly after handling. P261 Avoid breathing dust.

2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

3.0	Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
Cesium fluoride, 99.99%	CAS: 13400-13-0 EC: REACH: Not applicable	99.99%	H301, Acute Tox. 3 H311, Acute Tox. 3 H315, Skin Irr. 2 H318, Eye Dam. 1 H331, Acute Tox. 3 H361, Repr. 2

4. **First aid measures**

4.1

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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. 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. 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. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible. Consult a doctor. Most important symptoms 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 irritation and redness 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. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. 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. Nausea and stomach pain may occur. 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. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be loss of consciousness.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment



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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. 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.

Methods and material for containment and cleaning up

Clean-up procedures

6.3

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. Absorb into dry earth or sand.

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

Engineering measures	Ensure there is exhaust ventilation of the area. Ensure there is sufficient ventilation of the area.
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	Impermeable gloves. Protective gloves.

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Eye prote	ection	Ensure eye bath is to hand glasses.	d. Safety glasses with side-shields. Tightly fitting safety goggles. Safety
Skin prot	ection	Protective clothing.	
Physical	and chemic	al properties	
Informat	on on basic	physical and chemical prope	erties
Colou Odour Meltin Boiling Flam Lower Flash Auto-i Decor pH Kinem Solub Partiti	g point/Free g point/initial nability /Upper exple Point gnition temp nposition ter atic viscosit lity	boiling point/boiling range osion limit erature nperature	Solid White No data available. No data available.
Densi Relati Partic Other inf	y/relative de ve vapour pi e characteri ormation available.	ressure	No data available. No data available. No data available.
No data -			
Stability	and reactivi	ty	
Reactivit	у		
Stable ur	nder recomn	nended transport or storage co	onditions.
Chemica	l stability	-	
	nder normal	conditions.	
		ous reactions	
Hazardous	•	ous reactions	
Decomp			ns or materials listed below. Hazardous reactions will not occur under normal
Conditio	ns to avoid		
Heat.			
	tible materia	ale	
Materials to		213	
		ovidicing agonto	

Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity No data available.

- b) Skin corrosion/irritation Skin corrosion/irritation (Category 2)
- c) Serious eye damage/irritation Serious eye damage/eye irritation (Category 1)
- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity

a)

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	No data available.	
)	Carcinogenicity No data available.	
)	Reproductive toxicity Reproductive toxicity (0	Category 2)
)	STOT-single exposure	
	STOT-repeated exposu	Ire
	No data available.	
	Aspiration hazard No data available.	
1.2	Symptoms / routes of e	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 irritation and redness 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. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. 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. Nausea and stomach pain may occur. 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. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be loss of consciousness.
	Other information	No data available.
2.	Ecological information	
.1	Toxicity	
	No data available.	
.2	Persistence and degra	dability
	Biodegradable.	
2.3	Bioaccumulative poter	ntial
	No bioaccumulation po	tential.
2.4	Mobility in soil	
	Readily absorbed into s	soil.
2.5	Results of PBT and vP	vB assessment
	This substance is not id	dentified as a PBT substance.
2.6	Endocrine disrupting p	properties
	This substance is not ic	dentified as having endocrine disrupting properties
2.7	Other adverse effects	
	No data available.	
3.	Disposal consideration	ıs
3.1	Waste treatment metho	ods



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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	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN3288	UN3288	UN3288	UN3288	UN3288
14.2. UN proper shipping nan	ne			
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.
Transport document descript	tion			
UN3288 TOXIC SOLID, INORGANIC, N.O.S. (CESIUM FLUORIDE, 99.99%), 6.1, III	UN3288 TOXIC SOLID, INORGANIC, N.O.S. (CESIUM FLUORIDE, 99.99%), 6.1, III	UN3288 Toxic solid, inorganic, n.o.s. (Cesium fluoride, 99.99%), 6.1, III	UN3288 TOXIC SOLID, INORGANIC, N.O.S. (CESIUM FLUORIDE, 99.99%), 6.1, III	UN3288 TOXIC SOLID, INORGANIC, N.O.S. (CESIUM FLUORIDE, 99.99%), 6.1, III
14.3. Transport hazard class((es)			
6.1	6.1	6.1	6.1	6.1
•	*	6	6	6
14.4. Packing group				
III	III	III	III	III
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 mi
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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:	No data available.
Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placin on the market and use of certain dangerous substances:	g 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

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H301 H311	Toxic if swallowed Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H331	Toxic if inhaled
H361	Suspected of damaging fertility or the unborn child
Abbreviations Ful	
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 The leternational Maritima Damana Quark Quale
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 Persistent Bioaccumulative Toxic
PBT	
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
VOC	Volatile Organic Compounds
	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.