GX5205 v3.0



Safety Data Sheet

www.glentham.com

	According to REACH	Regulations (EC) 1907/2006 and (EU) 2020/878				
1.	Identification of the substance/mixture and of the company/undertaking					
.1	Product identifier					
	Product code Product name CAS number Physical form REACH	 GX5205 Tetrabutylammonium fluoride, 1M in THF 429-41-4 liquid, substance 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	Relevant identified uses of the substance or mixture and uses advised against					
	PC21: Laboratory chemicals.					
3	Details of the suppli	er of the safety data sheet				
	Company name	: Glentham Life Sciences LtdTelephone: +44 (0) 1225 667 798Unit 5 Leafield WayFax: +44 (0) 2033 978 909Corsham SN13 9SWEmail: info@glentham.comUnited KingdomWeb: www.glentham.com				
.4	Emergency telephor	ie number				
	Emergency telephon number	ne : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)				
	Hazards identification	n				
1	Classification of the	substance or mixture				
	Classification under CLP	Classification under CLP according to (EC) 1272/2008				
	H225 H314 H335 H336 H351	H335 STOT SE 3 H336 STOT SE 3				
.2	Label elements					
	Label elements under CLP according to (EC) 1272/2008					
	Pictograms	GHS02 GHS05 GHS07 GHS08				
	Signal words	Danger				
	Hazard statements					
	H225 H314 H335 H336 H351	Highly flammable liquid and vapour Causes severe skin burns and eye damage May cause respiratory irritation May cause drowsiness or dizziness Suspected of causing cancer				
	Precautionary statements					
	P210 P260	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking. Do not breathe dust/fume/gas/mist/vapors/spray.				
	P280 P305+P351+P338	Wear protective gloves/protective clothing/eye protection/face protection. 38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.				
	P370+P378 P403+P235 P264	103+P235Store in a well-ventilated place. Keep cool.264Do not breathe fume.				
	P241	Use explosion-proof electrical equipment.				

Glentham LIFE SCIENCES

Safety Data Sheet

www.glentham.com

2.3 Other hazards

РВТ

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
Tetrabutylammonium fluoride, 1M in THF	CAS: 429-41-4 EC: REACH: Not applicable		H225, Flam. Liq. 2 H314, Skin Corr. 1B H335, STOT SE 3 H336, STOT SE 3 H351, Carc. 2

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.
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. 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	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be mild irritation at the site of contact.
Eye contact	Corneal burns may occur. May cause permanent damage. There may be irritation and redness.
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. There may be irritation of the throat.
Inhalation	Exposure may cause coughing or wheezing. 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	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

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



Safety Data Sheet

www.glentham.com

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

Personal precautions

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

GX5205 v3.0

Glentham

Safety Data Sheet

www.glentham.com

Physical state Colour Odour Melting point/Freezing point Boiling point/Freezing point/boiling range Flammability Lower/Upper explosion limit Flash Point Auto-ignition temperature Decomposition temperature pH Kinematic viscosity	Liquid Colourless No data available. 24.9 °C No data available. Highly flammable liquid and vapour No data available. No data available. No data available. No data available. No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	No data available.
Relative vapour pressure	No data available.
Particle characteristics	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 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.

^{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

GX5205 v3.0



Safety Data Sheet

www.glentham.com

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

i) STOT-repeated exposure

No data available.

j) Aspiration hazard

No data available.

Symptoms / routes of exposure

Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be mild irritation at the site of contact.
Eye contact	Corneal burns may occur. May cause permanent damage. There may be irritation and redness.
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. There may be irritation of the throat.
Inhalation	Exposure may cause coughing or wheezing. 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	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose.

Other information No data available.

11.2 Information on other hazards

- 11.2.1 Endocrine disrupting properties
 - This product does not contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.
- 11.2.2 Other information

No additional information

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

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.

12.7

Glentham LIFE SCIENCES

14.

Safety Data Sheet

www.glentham.com

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN2924	UN2924	UN2924	UN2924	UN2924
14.2. UN proper shipping nar	ne			
FLAMMABLE LIQUID, CORROSIVE, N.O.S.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	Flammable liquid, corrosive, n.o.s.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Transport document descrip	tion			
UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (TETRABUTYLAMM ONIUM FLUORIDE, 1M IN THF), 3 (8), II	UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (TETRABUTYLAMM ONIUM FLUORIDE, 1M IN THF), 3 (8), II	UN2924 Flammable liquid, corrosive, n.o.s. (Tetrabutylammonium fluoride, 1M in THF), 3 (8), II	UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (TETRABUTYLAMM ONIUM FLUORIDE, 1M IN THF), 3 (8), II	UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (TETRABUTYLAMM ONIUM FLUORIDE, 1M IN THF), 3 (8), II
14.3. Transport hazard class((es)			
3 (8)	3 (8)	3 (8)	3 (8)	3 (8)
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
No	No	No	No	No

15. Regulatory information

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

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, 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

- H225 Highly flammable liquid and vapour
- H314 Causes severe skin burns and eye damage
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H351 Suspected of causing cancer

^{15.1} Safety, health and environmental regulations/legislation specific for the substance or mixture



Safety Data Sheet

www.glentham.com

Abbreviations Full Texts

ADN ADR ALARP CAS CLP COSHH EC Number EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL STOT VOC	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road As low as is reasonably practicable Chemical Abstracts Service Classification, Labelling and Packaging Regulations Control of Substances Hazardous to Health European Community Number Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intramuscular The International Maritime Dangerous Goods Code Intraperitoneal Intravascular Lethal Dose 50% Lowest Observable Effective Concentration Corg Term Exposure Limit No Observable Effective Concentration Organisation for Economic Cooperations and Development Persistent Bioaccumulative Toxic Personal Protective Equipment Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations Concerning the International Carriage of Dangerous Goods by Rail Subcutaneous Safety Data Sheet Short Term Exposure Limit Specific Target Organ Toxicity Volatile Organic Compounds
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.

Copyright © 2023 Glentham Life Sciences Limited. All rights reserved.