GX2925 v3.0

Glentham

Safety Data Sheet

www.glentham.com

According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

	According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878			
1.	Identification of the sub	dentification of the substance/mixture and of the company/undertaking		
1.1	Product identifier			
	Product name : CAS number :	GX2925 Titanium(IV) n-butoxide, 99% 5593-70-4 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.		
1.2	Relevant identified uses	evant identified uses of the substance or mixture and uses advised against		
	PC21: Laboratory chem			
1.3	Details of the supplier of	of the safety data sheet		
		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		
1.4	Emergency telephone r	number		
	Emergency telephone : number	NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)		
2.	Hazards identification	Jentification		
2.1				
	Classification under CLP according to (EC) 1272/2008			
	H315 S H318 E H335 S	Flam. Liq. 3 Skin Irr. 2 Eye Dam. 1 STOT SE 3 STOT SE 3		
2.2	Label elements			
Label elements under CLP according to (EC) 1272/2008		cording to (EC) 1272/2008		
	Pictograms	GHS02 GHS05 GHS07		
	Signal words Hazard statements	Danger		
	H226 H315 H318 H335 H336	Flammable liquid and vapour Causes skin irritation Causes serious eye damage May cause respiratory irritation May cause drowsiness or dizziness		
	Precautionary stateme P280 P305+P351+P338 P310	Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor/physician.		
	P310 P403+P235 P264 P241 P261	Store in a well-ventilated place. Keep cool. Do not breathe fume. Use explosion-proof electrical equipment. Avoid breathing vapors.		
22	Other hererde			

2.3

Other hazards

PBT

Glentham

Safety Data Sheet

www.glentham.com

This substance is not identified as a PBT substance.

~ ~	
3.0	Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
Titanium(IV) n-butoxide, 99%	CAS: 5593-70-4 EC: REACH: Not applicable	99.0%	H226, Flam. Liq. 3 H315, Skin Irr. 2 H318, Eye Dam. 1 H335, STOT SE 3 H336, STOT SE 3

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

Corrosive. Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture.

5.3 Advice for fire-fighters



Safety Data Sheet

www.glentham.com

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. Eliminate all sources of ignition. 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. 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

Physical state	Liquid
Colour	Colourless
Odour	No data available.

Glentham

Safety Data Sheet

www.glentham.com

Melting point/Freezing point	-55 °C
Boiling point/initial boiling point/boiling range	312 °C
Flammability	Flammable liquid and vapour
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	63.2 g/L @ 25 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	0.998
Relative vapour pressure	No data available.
Particle characteristics	No data available.
Other information	

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 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 No data available.
- f) Carcinogenicity No data available.
- g) Reproductive toxicity No data available.
- b) STOT-single exposure
 Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)
- i) STOT-repeated exposure

Safety Data Sheet

www.glentham.com

No data available.

Aspiration hazard

j)

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

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.

Glentham LIFE SCIENCES

14.

Safety Data Sheet

www.glentham.com

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN1993	UN1993	UN1993	UN1993	UN1993
14.2. UN proper shipping na	ne			
FLAMMABLE	FLAMMABLE	Flammable liquid,	FLAMMABLE	FLAMMABLE
LIQUID, N.O.S.	LIQUID, N.O.S.	n.o.s.	LIQUID, N.O.S.	LIQUID, N.O.S.
Transport document descrip	tion			
UN1993	UN1993	UN1993 Flammable	UN1993	UN1993
FLAMMABLE	FLAMMABLE	liquid, n.o.s.	FLAMMABLE	FLAMMABLE
LIQUID, N.O.S.	LIQUID, N.O.S.	(Titanium(IV)	LIQUID, N.O.S.	LIQUID, N.O.S.
(TITANIUM(IV)	(TITANIUM(IV)	n-butoxide, 99%), 3,	(TITANIUM(IV)	(TITANIUM(IV)
N-BUTOXIDE, 99%),	N-BUTOXIDE, 99%),	III	N-BUTOXIDE, 99%),	N-BUTOXIDE, 99%),
3, III	3, III		3, III	3, III
14.3. Transport hazard class	(es)			
3	3	3	3	3
14.4. Packing group	•	•	•	•
111	III	Ш	III	Ш
14.5. Environmental hazards				
No	Νο	Νο	No	Νο

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) 2020/878.

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

H226	Flammable liquid and vapour
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Abbreviations Full Texts

Glentham LIFE SCIENCES

Safety Data Sheet

www.glentham.com

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	
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) 2020/878.

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.