

## Safety Data Sheet

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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				
I	Product identifier				
	Product code :	GX6644			
	Product name :	Titanium(IV) ethoxide			
	CAS number :	3087-36-3			
	Physical form :	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 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			
4	Emergency telephone nu	mber			
		NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)			
	number				
	Hazards identification				
1	Classification of the substance or mixture				
	Classification under CLP according to (EC) 1272/2008				
	H226 Flam. Liq. 3				
		e Irr. 2A			
2	Label elements				
	Label elements under CLP according to (EC) 1272/2008				
	Pictograms				
		GHS02 GHS07			
	Signal words	Warning			
	Hazard statements				
	H226	Flammable liquid and vapour			
	H319	Causes serious eye irritation			
	Precautionary statements				
	P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.			
	P233	Keep container tightly closed.			
	P240 P243	Ground/bond container and receiving equipment.			
	P243 P280	Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection.			
	P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or			
	P305+P351+P338	shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.			
	P403+P235	easy to do - continue rinsing. Store in a well-ventilated place. Keep cool.			
	Other hazards				
3					
3	PBT				

#### 3.0 Composition/information on ingredients

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#### 3.1 Substances

**4**.

4.2

Name		Identifier	%	Classification
Titanium(IV) ethoxid	de	CAS: 3087-36-3 EC: REACH: Not applicable	33.0%	H226, Flam. Liq. 3 H319, Eye Irr. 2A
First aid measures				
Description of first a	id measures			
Skin contact		nated clothes and footwear i		longer if substance is still on skin. Inless stuck to skin. Wash immediately
Eye contact	Consult a doctor. Tra 15 minutes.	ansfer to hospital for special	ist examinatio	on. Bathe the eye with running water for
Ingestion	Consult a doctor. Do Wash out mouth with		scious, give h	alf a litre of water to drink immediately.
Inhalation		, , , , , , , , , , , , , , , , , , ,	re ensuring o	ne's own safety whilst doing so.
Nost important symp	otoms and effects, both	acute and delayed		
Skin contact	There may be mild ir	ritation at the site of contact		
Eye contact	, i	<b>o</b> , ,	•	ly. The vision may become blurred. redness. There may be severe pain.
Ingestion	Nausea and stomach and redness of the m		y be irritation	of the throat. There may be soreness
Inhalation	There may be irritation	on of the throat with a feeling	g of tightness	in the chest.
Delayed / immediate effects	Delayed effects can short-term exposure.		exposure. In	nmediate effects can be expected after

#### 4.3 Indication of any immediate medical attention and special treatment needed

#### Immediate / special treatment

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

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. 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



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Do not discharge into drains or rivers.

#### 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. 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. 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 (EN 374).
Eye protection	Tightly fitting safety goggles. Ensure eye bath is to hand. Safety glasses (EN 166).
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.
Melting point/Freezing point	No data available.
Boiling point/initial boiling point/boiling range	No data available.
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.
pH	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.



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	Density/relative density1.107Relative vapour pressureNo data available.Particle characteristicsNo data available.			
9.2	2 Other information No data available.			
10.	0. Stability and reactivity			
10.1	<sup>0.1</sup> Reactivity			
	Stable under recommended transport or storage conditions.			
10.2	0.2 Chemical stability			
	Stable at room temperature. Stable under normal conditions.			
10.3	<sup>0.3</sup> Possibility of hazardous reactions			
	Hazardous reactions			
	Decomposition may occur on exposure to conditions or materials listed below. Hazardous re transport or storage conditions.	actions will not occur under normal		
10.4	0.4 Conditions to avoid			
	Flames. Hot surfaces. Sources of ignition. Heat.			
10.5	<sup>0.5</sup> Incompatible materials			
	Materials to avoid			
	Strong acids. Strong oxidising agents.			
11.	1. Toxicological information			
11.1	1.1 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.			
	Symptoms / routes of exposure			
	Skin contact         There may be mild irritation at the site of contact.			
	Eye contact May cause permanent damage. The eyes may water profusely. The	vision may become blurred.		

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	Ingestion	Nausea and stomach pain may occur. There may be irritation of the throat. There may be soreness and redness of the mouth and throat.
	Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
	Delayed / immediate effects	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure.
	Other information	No data available.
.2	Information on other	hazards
.2.1	Endocrine disrupting p	properties
	This product does no	t contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.
1.2.2	Other information	
	No additional informa	ation
2.	Ecological information	on
2.1	Toxicity	
	No data available.	
2.2	Persistence and deg	radability
	Biodegradable.	
2.3	Bioaccumulative pot	ential
	No bioaccumulation p	potential.
2.4	Mobility in soil	
	Readily absorbed into	o soil.
2.5	Results of PBT and v	/PvB assessment
	This substance is not	t identified as a PBT substance.
2.6	Endocrine disrupting	g properties
	This substance is not	t identified as having endocrine disrupting properties
2.7	Other adverse effects	S
	No data available.	
3.	Disposal considerati	ons
3.1	Waste treatment met	thods
	Disposal operations	
		e container and arrange for collection by specialised disposal company.
	NB	a drawn to the needible existence of regional or national regulations regarding disposal
	The user's allention is	s drawn to the possible existence of regional or national regulations regarding disposal.
4.	Transport informatio	n
	-	t require a classification for transport.
5.	Regulatory informati	on
5.1	Safety, health and environ	mental 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

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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

Other information			
H-Statement Full Texts			
H226	Flammable liquid and vapour		
H319	Causes serious eye irritation		
Abbreviations Fu	II 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		
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		
IMDG	The International Maritime Dangerous Goods Code		
IP	Intraperitoneal		
IV	Intravascular		

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.

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