GX2625 v3.0

# **Glentham** LIFE SCIENCES

### Safety Data Sheet

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

According to R	EACH Regulations (EC) 1907/2006 and (EC) 2020/878
Identification of	of the substance/mixture and of the company/undertaking
.1 Product identi	fier
Product code Product name CAS number Physical form REACH	<ul> <li>GX2625</li> <li>Niobium(V) chloride, 99+%</li> <li>10026-12-7</li> <li>solid, substance</li> <li>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.</li> </ul>
.2 Relevant ident	ified uses of the substance or mixture and uses advised against
PC21: Laborat	ory chemicals.
.3 Details of the s	supplier of the safety data sheet
Company nam	<ul> <li>Be : Glentham Life Sciences Ltd Telephone : +44 (0) 1225 667 798</li> <li>Unit 5 Leafield Way Fax : +44 (0) 2033 978 909</li> <li>Corsham SN13 9SW Email : info@glentham.com</li> <li>United Kingdom Web : www.glentham.com</li> </ul>
.4 Emergency tel	lephone number
Emergency tel number	ephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)
Hazards identi	ification
.1 Classification	of the substance or mixture
Classification und	ler CLP according to (EC) 1272/2008
H302 H312 H314 H332	Acute Tox. 4 Acute Tox. 4 Skin Corr. 1B Acute Tox. 4
2 Label element	S
	- nder CLP according to (EC) 1272/2008
Pictograms	

GHS05	GHS07

Signal words	Danger
Hazard statements	
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
Precautionary statements	
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.
P310	Immediately call a POISON CENTER or doctor/physician.
P261	Avoid breathing dust.
P264	Do not breathe fume.
Other hazards	

PBT

This substance is not identified as a PBT substance.

2.3

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#### 3.1 Substances

**4**. 4.1

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4.3

Name		Identifier	%	Classification		
Niobium(V) chloride, 99+%		CAS: 10026-12-7 EC: REACH: Not applicable	99.0%	H302, Acute Tox. 4 H312, Acute Tox. 4 H314, Skin Corr. 1B H332, Acute Tox. 4		
irst aid measures						
escription of first a	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. Transf 15 minutes.	er to hospital for special	st examinatio	n. Bathe the eye with running water for		
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.					
lost important sym	ptoms and effects, both acu	ite and delayed				
Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be irritation and redness at the site of contact.					
	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be pain and redness.					
Eye contact	be pain and redness.			Blood may be vomited. 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 soreness and redness of the mouth and throat. There may be vomiting.		
Eye contact	Blood may be vomited. ( occur. There may be ble	eding from the mouth or				
	Blood may be vomited. O occur. There may be ble mouth and throat. There Exposure may cause co	eding from the mouth of may be vomiting. ughing or wheezing. Na h a feeling of tightness i	nose. There usea and stor n the chest. T			

#### Immediate / special treatment

Do not induce vomiting. 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.

#### 5.3 Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

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#### GX2625 v3.0

### Safety Data Sheet

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#### 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. 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	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	Solid
Colour	Yellow
Odour	No data available.
Melting point/Freezing point	206 °C
Boiling point/initial boiling point/boiling range	254 °C
Flammability	Non flammable
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.

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Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
Density/relative density
Relative vapour pressure
Particle characteristics

#### 9.2 Other information

No data available.

#### 10. Stability and reactivity

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

#### <sup>10.2</sup> 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.

No data available. 248.9 mg/L @ 20 °C No data available. No data available. No data available. No data available. No data available.

#### <sup>10.4</sup> Conditions to avoid

Heat.

#### <sup>10.5</sup> Incompatible materials

#### Materials to avoid

Strong acids. Strong oxidising agents.

#### **11.** Toxicological information

#### <sup>11.1</sup> 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 No data available.
- i) STOT-repeated exposure No data available.
- j) Aspiration hazardNo data available.
  - Symptoms / routes of exposure

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Skin co	ntact	Blistering may occur. P irritation and redness a	•		eatment is not imm	ediate. There may be
Eye cor	itact	Corneal burns may occ be pain and redness.	ur. May cause perr	nanent damage.	The eyes may wa	ter profusely. There may
Ingestio	'n	Blood may be vomited. occur. There may be bl mouth and throat. Ther	eeding from the mo	outh or nose. The		and stomach pain may ess and redness of the
Inhalati	on	Exposure may cause c irritation of the throat w burning sensation in th	ith a feeling of tight	ness in the ches		occur. There may be nortness of breath with a
Delayed effects	l / immediate	Immediate effects can There may be bleeding	•	•	ure. Nausea and s	tomach pain may occur.
Other in	formation	No data available.				
Informa	tion on other	nazards				
Endocrii	ne disrupting pr	operties				
This pro	duct does not	contain known or suspec	ted endocrine disru	ptors according	to REACH or relev	ant EU Regulations.
Other in	formation					
No addi	tional informat	on				
Ecologi	cal informatio	ı				
Toxicity	,					
No data	available.					
Persiste	ence and degr	adability				
Biodegr	adable.					
Bioaccu	imulative pote	ntial				
No bioa	ccumulation p	otential.				
Mobility	in soil					
Readily	absorbed into	soil.				
Results	of PBT and vi	vB assessment				
This sul	ostance is not	dentified as a PBT substa	ance.			
Endocri	ne disrupting	properties				
This sul	ostance is not	dentified as having endo	crine disrupting pro	perties		
Other a	dverse effects					
No data	available.					
Disposa	I consideratio	ns				
Waste t	reatment meth	ods				
	operations	and the second second		-11		
	r to a suitable	container and arrange for	collection by speci	alised disposal o	company.	
NB The use	r's attention is	drawn to the possible ex	istence of regional	or national regul	ations recording di	sposal
ine use	a s auchuon is	drawn to the possible ex	stence of regional	or national regul	adona regarunny u	opooal.
Transpo	ort informatior					
ADR		IMDG	ΙΑΤΑ	ADN	l	RID
14.1. UI	I number					

UN3260

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CORROSIVE SOL	D, CORROSIVE SOLID,	Corrosive solid,	CORROSIVE SOLID,	CORROSIVE SOLID,
ACIDIC,	ACIDIC,	acidic, inorganic,	ACIDIC,	ACIDIC,
INORGANIC, N.O.		n.o.s.	INORGANIC, N.O.S.	INORGANIC, N.O.S.
Transport document de	scription			
UN3260	UN3260	UN3260 Corrosive	UN3260	UN3260
CORROSIVE SOLI	D, CORROSIVE SOLID,	solid, acidic,	CORROSIVE SOLID,	CORROSIVE SOLID,
ACIDIC,	ACIDIC,	inorganic, n.o.s.	ACIDIC,	ACIDIC,
NORGANIC, N.O.	6. INORGANIC, N.O.S.	(Niobium(V) chloride,	INORGANIC, N.O.S.	INORGANIC, N.O.S.
NIOBIUM(V)	(NIOBIUM(V)	99+%), 8, II	(NIOBIUM(V)	(NIOBIUM(V)
CHLORIDE, 99+%	. ,.		CHLORIDE, 99+%),	CHLORIDE, 99+%),
3, II	8, II		8, II	8, II
14.3. Transport hazard o	lass(es)			
3	8	8	8	8
Â	Â	Â	Â	Â
		8	8	8
*	*	*	×.	*
I4.4. Packing group	11	11		11
			"	"
14.5. Environmental haz				
No	No	No	No	No
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### **Safety Data Sheet**

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EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL STOT	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 Long 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
	1
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.

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