GX8601 v3.0



Safety Data Sheet

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

	According to REACH R	egulations (EC) 1907/2006	and (EU) 20	20/878				
	Identification of the sul	Identification of the substance/mixture and of the company/undertaking						
I	Product identifier	Product identifier						
	Product name : CAS number : Physical form :	GX8601 Hafnium oxide, 99.9% 12055-23-1 solid, substance A registration number is r are exempted from regist the registration is envisag	ration, the a	nnual tonna	ge	does not		
1.2	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 L Unit 5 Leafield Way Corsham SN13 9SW United Kingdom	F	Telephone Fax Email Web	:	+44 (0) info@g	1225 667 798 2033 978 909 lentham.com lentham.com	
.4	Emergency telephone	number						
	Emergency telephone : number	NHS Direct 111 (UK, 24 h	nours), 112 (EU, 24 Hou	ırs),	+44 (0)	1225 667 798 (09.00 – 17.00 GMT))
	Hazards identification							
1	Classification of the substance or mixture							
	Classification under CLP acc	ording to (EC) 1272/2008						
	This product has no cla	ssification under CLP.						
.2	Label elements							
	Label elements under CLP ac	ccording to (EC) 1272/2008						
	This product has no lab	el elements.						
.3	Other hazards							
	РВТ							
	This substance is not identified as a PBT substance.							
.0	Composition/informatio	on on ingredients						
.1	Substances							
	Name		Identifier		%		Classification	
	Hafnium oxide, 99.9%	6	CAS: 1205 EC: REACH: N applicable	lot	99	.9%	Not classified	
	First aid measures							
1	Description of first aid measures							
	Skin contact	Wash immediately with plenty of soap and water.						
	Eve contact	Eve contact Bathe the eve with running water for 15 minutes						

Eye contact	Bathe the eye with running water for 15 minutes.
Ingestion	Wash out mouth with water.
Inhalation	Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

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	Skin contact	There may be mild irritation at the site of contact.				
	Eye contact	There may be irritation and redness.				
	Ingestion	There may be irritation of the throat.				
	Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.				
	Delayed / immediate effects	No symptoms.				
4.3	Indication of any imm	nediate medical attention and special treatment needed				
	Immediate / special treatme	ent				
	No data available.					
5.	Fire-fighting measure	es a la companya de l				
5.1	Extinguishing media					
	Suitable extinguishing	g media for the surrounding fire should be used.				
5.2	Special hazards arisi	ng from the substance or mixture				
	Exposure hazards					
	In combustion emits t	oxic fumes.				
5.3	Advice for fire-fighter	's				
	Wear protective cloth	ing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.				
6.	Accidental release m	easures				
6.1	Personal precautions, protective equipment and emergency procedures					
	Personal precautions					
	Refer to section 8 of S	SDS for personal protection details.				
5.2	Environmental precautions					
	Do not discharge into	drains or rivers.				
6.3	Methods and material for containment and cleaning up					
	Clean-up procedures					
	Wash the spillage site	e with large amounts of water.				
6.4	Reference to other se	ections				
	Refer to section 8 of S	SDS.				
7.	Handling and storage	3				
7.1	Precautions for safe	handling				
	Handling requirements					
	Avoid the formation o	r spread of dust in the air.				
7.2	Conditions for safe s	torage, including any incompatibilities				
	Storage conditions					
	Avoid contact with wa	ter or humidity. Keep container tightly closed. Store in cool, well ventilated area.				
7.3	Specific end use(s)					
	No data available.					
В.	Exposure controls/pe	ersonal protection				
3.1	Control parameters					
	Workplace exposure limits					
	No workplace exposu	re limit control parameters set				

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Engineering measures	No data available.
Respiratory protection	Respiratory protective device with particle filter.
Hand protection	Protective gloves.
Eye protection	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	White
Odour	No data available.
Melting point/Freezing point	No data available.
Boiling point/initial boiling point/boiling range	No data available.
Flammability	No data available.
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	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	9.700
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 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

Heat.

^{10.5} Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

11. Toxicological information

^{11.1} Information on toxicological effects

a) Acute toxicity

No data available.

b) Skin corrosion/irritation No data available.

c) Serious eye damage/irritation No data available.

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d)	Respiratory or skin s e No data available.	ensitisation
e)	Germ cell mutagenici No data available.	ty
f)	Carcinogenicity No data available.	
g)	Reproductive toxicity No data available.	
h)	STOT-single exposur No data available.	e
i)	STOT-repeated exposent No data available.	sure
j)	Aspiration hazard No data available.	
	Symptoms / routes of	fexposure
	Skin contact	There may be mild irritation at the site of contact.
	Eye contact	There may be irritation and redness.
	Ingestion	There may be irritation of the throat.
	Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
	Delayed / immediate effects	No symptoms.
	Other information	No data available.
11.2	Information on other	hazards
11.2.1	Endocrine disrupting pr	roperties
	This product does not	contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.
11.2.2	Other information	
	No additional informat	tion
12.	Ecological informatio	n
12.1	Toxicity	
	No data available.	
12.2	Persistence and degr	adability
	Biodegradable.	
12.3	Bioaccumulative pote	ential
	No bioaccumulation p	otential.
12.4	Mobility in soil	
	No data available.	
12.5	Results of PBT and v	PvB 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 consideration	ons

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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

This product does not require a classification for transport.

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

Abbreviations Full Texts

~	bbieviations i un	1 GALS
	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
	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



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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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