GX0903 v2.0



Safety Data Sheet

www.glentham.com

	According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878				
	Identification of the substance/mixture and of the company/undertaking				
¹ Product identifier					
	Product name:CAS number:Physical form:	GX0903 Barium titanate-Nano Powder, 99.6% [APS 85-128 nm] 12047-27-7 solid, substance - nanoform 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	i 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 telephone nu	umber			
	Emergency telephone : number	NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)			
	Hazards identification				
1	Classification of the sub	stance or mixture			
	Classification under CLP according to (EC) 1272/2008				
		cute Tox. 4 cute Tox. 4			
.2	Label elements				
	Label elements under CLP acc	ording to (EC) 1272/2008			
	Pictograms	GHS07			
	Signal words Hazard statements	Warning			
	H302 H332	Harmful if swallowed Harmful if inhaled			
	Precautionary statemen P280 P301+P312 P261 P264	nts Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell. Avoid breathing dust. Do not breathe fume.			
.3	Other hazards				
	РВТ				
	This substance is not ide	ntified as a PBT substance.			
.0	Composition/information	ו on ingredients			

Glentham LIFE SCIENCES

4. 4.1

Safety Data Sheet

www.glentham.com

Name	Identifier	%	Classification	
Barium titanate-Nano Powder, 99.6% [APS 85-128 nm]	CAS: 12047-27-7 EC: REACH: Not applicable	99.6%	H302, Acute Tox. 4 H332, Acute Tox. 4	
First aid measures				
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.
Eye contact	Consult a doctor. Bathe the eye with running water for 15 minutes.
Ingestion	Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Wash out mouth with water.
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

	Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness In the chest. There may be vomiting.	
	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.	
Eye contact T	The eyes may water profusely. There may be pain and redness.	
Skin contact T	Skin contact There may be irritation and redness at the site of contact.	

Delayed / immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

Special hazards arising from the substance or mixture

Exposure hazards

5.2

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

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. 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

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Glentham

Safety Data Sheet

www.glentham.com

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	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	No data available.
Relative vapour pressure	No data available.
Particle characteristics	No data available.
they information	

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

Glentham LIFE SCIENCES

Safety Data Sheet

www.glentham.com

10.2	Chemical stability		
	Stable under normal conditions.		
10.3	Possibility of hazardou	us reactions	
	Hazardous reactions		
	Decomposition may oc transport or storage co	cur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal nditions.	
10.4	Conditions to avoid		
	Heat.		
10.5	Incompatible materials		
	Materials to avoid		
	Strong acids. Strong ox	kidising agents.	
11.	Toxicological informat	ion	
11.1	Information on toxicol	ogical effects	
a)	Acute toxicity		
	No data available.		
b)	Skin corrosion/irritation No data available.		
c)	Serious eye damage/irritation		
d)	Respiratory or skin sensitisation		
	No data available.		
e)	Germ cell mutagenicity		
	No data available.		
f)	Carcinogenicity		
g)	No data available.		
3/	Reproductive toxicity No data available.		
h)	STOT-single exposure		
	No data available.		
i)	STOT-repeated exposu	ıre	
	No data available.		
j)	Aspiration hazard No data available.		
11.2	No data available. Symptoms / routes of exposure		
	Skin contact	There may be irritation and redness at the site of contact.	
	Eye contact	The eyes may water profusely. There may be pain and redness.	
	Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.	
	Inhalation	Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be vomiting.	
	Delayed / immediate effects	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.	
	Other information	No data available.	
12.	Ecological information		
12.1	Toxicity		

No data available.

GX0903 v2.0



Safety Data Sheet

www.glentham.com

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.			
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) 2020/787.			
	Authorisations/Restrictions			
	Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to No data available. authorisation:			
	Regulation (EC) 1907/2006 REACH Annex XVII restrictions on the manufacture, placing, No data available			

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placingNo data available.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) NoNo data available.

2019/1021:

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

H302	Harmful if swallowed
H332	Harmful if inhaled

Abbreviations Full Texts

ADN ADR	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways 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

GX0903 v2.0



Safety Data Sheet

www.glentham.com

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

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.