

## 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

#### 1.1 Product identifier

1.

Product code	: GX9016
Product name	: Silver Powder 1.5-2.5 micron, 99.9%
CAS number	: 7440-22-4
EINECS	: 231-131-3
Physical form	: solid, substance
REACH	: 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 of the substance or mixture and uses advised against

PC21: Laboratory chemicals.

#### 1.3 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

#### 1.4 **Emergency telephone number**

Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 - 17.00 GMT) number

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H400	Aquatic Acute 1
H410	Aquatic Chronic 1

#### 2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

#### Pictograms



Signal words	Warning
Hazard statements	
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Precautionary statements	
P273	Avoid release to the environment.
Other hazards	
РВТ	
This substance is not identified	ed as a PBT substance.

#### Composition/information on ingredients 3.0

#### 3.1 Substances

2.3

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**4.** 4.1

4.2

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Name		Identifier	%	Classification
Silver Powder 1.5-2.5 micron, 99.9%		CAS: 7440-22-4 EC: 231-131-3 REACH: Not applicable	99.9%	H400, Aquatic Acute 1 H410, Aquatic Chronic 1
First aid measures	S			
Description of firs	t aid measures			
Skin contact	Wash immediately v	vith plenty of soap and wate	r.	
Eye contact	Bathe the eye with r	unning water for 15 minutes	5.	
Ingestion	Wash out mouth wit	h water.		
Inhalation	Consult a doctor.			
Most important sy	mptoms and effects, both	acute and delayed		
Skin contact	There may be mild i	rritation at the site of contac	t.	
Eye contact	There may be irritati	on and redness.		
Ingestion	There may be irritati	on of the throat.		

There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment

No data available.

Inhalation

#### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

#### 5.2 Special hazards arising from the substance or mixture

Exposure hazards

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

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.

#### 6.4 Reference to other sections

Refer to section 8 of SDS.

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Handling and storage					
Precautions for safe handling					
Handling requirements	-				
Avoid the formation or	spread of dust in the air.				
Conditions for safe st	orage, including any incom	patibilities			
Storage conditions					
Avoid contact with wat	ter or humidity. Keep contair	ner tightly closed. Stor	e in cool, well ve	entilated area.	
Specific end use(s)					
No data available.					
Exposure controls/pe	rsonal protection				
Control parameters					
Workplace exposure limits					
Substance (CAS)	Control Parameter	r	Value	Notes	Source
Silver, metallic (7440-22-4)	Long-term Exposu	re Limit (ppm)	0.1		2000/39/EC
	Long-term Exposu	re Limit (mg m <sup>-3</sup> )	0.1		UK HSE EH40/2005
Evnosuro controls	Long-term Exposu	re Limit (mg m <sup>-3</sup> )	0.1		UK HSE EH40/2005
Exposure controls Engineering measures	Long-term Exposu No data available.	re Limit (mg m <sup>-3</sup> )	0.1		UK HSE EH40/2005
•					UK HSE EH40/2005
Engineering measures	No data available.				UK HSE EH40/2005
Engineering measures	No data available. Respiratory protective dev	vice with particle filter.			UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection	No data available. Respiratory protective dev Protective gloves.	vice with particle filter.			UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing.	vice with particle filter.			UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing.	vice with particle filter. d. Safety glasses.			UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica Information on basic p Physical state	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing.	vice with particle filter. d. Safety glasses. <b>erties</b> Solid			UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica Information on basic p Physical state Colour	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing.	vice with particle filter. d. Safety glasses. <b>erties</b> Solid Silver			UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica Information on basic p Physical state Colour Odour	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing.	vice with particle filter. d. Safety glasses. erties Solid Silver No data available			UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica Information on basic p Physical state Colour Odour Melting point/Freez	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing. In properties physical and chemical prop	vice with particle filter. d. Safety glasses. erties Solid Silver No data available 960.5 °C			UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica Information on basic p Physical state Colour Odour Melting point/Freez Boiling point/initial t	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing.	vice with particle filter. d. Safety glasses. erties Solid Silver No data available 960.5 °C 2000 °C (approx)	·		UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica Information on basic p Physical state Colour Odour Melting point/Freez Boiling point/initial t Flammability	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing. In properties physical and chemical properties physical and chemical properties	vice with particle filter. d. Safety glasses. erties Solid Silver No data available 960.5 °C	· ·		UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica Information on basic p Physical state Colour Odour Melting point/Freez Boiling point/initial t	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing. In properties physical and chemical properties physical and chemical properties	vice with particle filter. d. Safety glasses. erties Solid Silver No data available 960.5 °C 2000 °C (approx) No data available			UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica Information on basic p Physical state Colour Odour Melting point/Freez Boiling point/Freez Boiling point/initial t Flammability Lower/Upper explose Flash Point	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing. In properties physical and chemical properties physical and chemical properties physical and chemical properties	vice with particle filter. d. Safety glasses. erties Solid Silver No data available 960.5 °C 2000 °C (approx) No data available No data available	· · · · · · · · · · · · · · · · · · ·		UK HSE EH40/2005
Engineering measures Respiratory protection Hand protection Eye protection Skin protection Physical and chemica Information on basic p Physical state Colour Odour Melting point/Freez Boiling point/Friez Boiling point/initial t Flammability Lower/Upper explore	No data available. Respiratory protective dev Protective gloves. Ensure eye bath is to han Protective clothing. In properties physical and chemical properties physical and chemical properties ing point boiling point/boiling range sion limit erature	vice with particle filter. d. Safety glasses. erties Solid Silver No data available 960.5 °C 2000 °C (approx) No data available No data available No data available			UK HSE EH40/2005

No data available.

10.490

Kinematic viscosity

Vapour pressure

Other information No data available.

Stability and reactivity

Density/relative density

Particle characteristics

Relative vapour pressure

Partition coefficient n-octanol/water

Solubility

9.2

10.



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#### 10.2 Chemical stability

Stable under normal conditions.

#### <sup>10.3</sup> 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.

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

#### Materials to avoid

Strong acids. Strong oxidising agents.

#### 11. Toxicological information

#### 11.1 Information on toxicological effects

#### a) Acute toxicity

Silver, metallic LD50 Rat (Dermal): >2000 mg/kg

LD50 Rat (Oral): >5000 mg/kg

- b) Skin corrosion/irritation No data available.
- 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 hazard

No data available.

#### 11.2 Symptoms / routes of exposure

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	Immediate effects can be expected after short-term exposure.
Other information	No data available.

- 12. Ecological information
- <sup>12.1</sup> Toxicity

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No data available.

- 12.2 Persistence and degradability Not biodegradable.
- 12.3 Bioaccumulative potential

Bioaccumulation potential.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment This substance is not identified as a PBT substance.

#### <sup>12.6</sup> 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

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN3077	UN3077	UN3077	UN3077	UN3077
14.2. UN proper shipping nar	ne			
ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.	ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALL Y HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport document descrip	tion			
UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SILVER POWDER 1.5-2.5 MICRON, 99.9%), 9, III	UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SILVER POWDER 1.5-2.5 MICRON, 99.9%), 9, III	UN3077 Environmentally hazardous substance, solid, n.o.s. (Silver Powder 1.5-2.5 micron, 99.9%), 9, III	UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SILVER POWDER 1.5-2.5 MICRON, 99.9%), 9, III	UN3077 ENVIRONM ENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SILVER POWDER 1.5-2.5 MICRON, 99.9%), 9, III
14.3. Transport hazard class	(es)			
9	9	9	9	9
14.4. Packing group				
111	111	111		III

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GX9016 v2.0

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#### 14.5. Environmental hazards



Dangerous for the Environment: yes



Environment: yes



Dangerous for the Environment: yes



Environment: yes



Dangerous for the Environment: yes

#### 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) 1907/20 Regulation (EU) 2020/787.	7/2006, amended by Commission	
	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

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

#### **Abbreviations Full Texts**

A	bbreviations Full	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
	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
	VOC	Volatile Organic Compounds
	vPvB	Very Persistent and Very Bioaccumulative
	WEL	Workplace Exposure Limits



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

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