

Safety Data Sheet

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

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1.	Identification of the su	ubstance/mixture and of the compan	y/undertaking			
1.1	Product identifier					
	Product name	 GX6519 Hexaammine cobalt(III) chloride, 99.999% 10534-89-1 solid, 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. 				
1.2	^{1.2} Relevant identified uses of the substance or mixture and uses advised against			st		
	PC21: Laboratory chemicals.					
1.3	Details of the supplier of the safety data sheet					
	Company name	: Glentham Life Sciences Ltd Unit 5 Leafield Way Corsham SN13 9SW United Kingdom	Telephone Fax Email Web	:	+44 (0) 1225 667 798 +44 (0) 2033 978 909 info@glentham.com www.glentham.com	
1.4 Emergency telephone number						
	Emergency telephone number	: NHS Direct 111 (UK, 24 hours), 1	12 (EU, 24 Hou	urs),	+44 (0) 1225 667 798 (09.00 – 17.00 GMT)	
2.	Hazards identification	L. C.				
2.1 Classification of the substance or mixture						
	Classification under CLP according to (EC) 1272/2008					
	H334 H351	Skin Sens. 1 Resp. Sens. 1 Carc. 2 Aquatic Chronic 4				
		•				

2.2 Label elements

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

Pictograms



Signal words	Danger
•	Danger
Hazard statements	
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351	Suspected of causing cancer
H413	May cause long lasting harmful effects to aquatic life
Precautionary statements	
P261	Avoid breathing dust.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.
Other hazards	

2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

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GX6519 v3.0

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Substances							
Name		Identifier	%	Classification			
Hexaammine cobal	t(III) chloride, 99.999%	CAS: 10534-89-1 EC: REACH: Not applicable	99.999%	H317, Skin Sens. 1 H334, Resp. Sens. 1 H351, Carc. 2 H413, Aquatic Chronic 4			
First aid measures							
Description of first a	id measures						
Skin contact		contaminated clothes ar		or 10 minutes or longer if substance i mediately unless stuck to skin. Wash			
Eye contact	Consult a doctor. Bathe	the eye with running wa	ter for 15 minu	tes.			
Ingestion	Consult a doctor. Do no Wash out mouth with w	Ũ	cious, give ha	If a litre of water to drink immediately			
Inhalation	Consult a doctor. Remo	ve casualty from exposu	re ensuring on	e's own safety whilst doing so.			
Most important symp	otoms and effects, both ac	ute and delayed					
Skin contact	There may be irritation a contact.	and redness at the site o	f contact. Ther	e may be mild irritation at the site of			
Eye contact	The eyes may water pro	ofusely. There may be irr	itation and red	ness.			
Ingestion	-	ain may occur. There ma ith and throat. There may	•	of the throat. There may be soreness			
Inhalation	There may be irritation	of the throat with a feeling	g of tightness i	n the chest.			
Delayed / immediate effects	Immediate effects can b	be expected after short-te	rm exposure.				
Indication of any imp	nediate medical attention a	and special treatment ne	eded				
Indication of any immediate medical attention and special treatment needed Immediate / special treatment							
No data available.							
Fire-fighting measure	06						

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

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.



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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.

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.

Specific end use(s)

7.3

8.1

No data available.

8. Exposure controls/personal protection

Control parameters

Workplace exposure limits

Substance (CAS)	Control Parameter	Value	Notes	Source
Cobalt and Cobalt compounds (as Co) (var)	Long-term Exposure Limit (mg m ⁻³)	0.1	Carc (cobalt dichloride and sulphate), Sen	UK HSE EH40/2005

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	Orange
Odour	No data available.
Melting point/Freezing point	217 °C
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	4.0 - 6.0 at 26.7 g/l
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 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.

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.

1.71 g/mL No data available.

No data available.

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 Cobalt and Cobalt compounds (as Co) No data available.

- b) Skin corrosion/irritation No data available.
- c) Serious eye damage/irritation No data available.
- d) Respiratory or skin sensitisation Sensitization, Skin (Category 1)
- 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 irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	The eyes may water profusely. There may be irritation and redness.

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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. There may be vomiting.
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.
Information on other	hazards
Endocrine disrupting p	properties
This product does no	t contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.
Other information	
No additional informa	ation
Ecological information	on
Toxicity	
No data available.	
Persistence and deg	radability
Not biodegradable.	
Bioaccumulative pot	ential
Bioaccumulation pote	ential.
Mobility in soil	
Readily absorbed into	o soil.
Results of PBT and v	/PvB assessment
This substance is not	t identified as a PBT substance.
Endocrine disrupting	y properties
This substance is not	t identified as having endocrine disrupting properties
Other adverse effects	S
No data available.	
Disposal considerati	ons
Waste treatment met	thods
Disposal operations	
	e container and arrange for collection by specialised disposal company.
NB	
The user's attention i	s drawn to the possible existence of regional or national regulations regarding disposal.
Transport informatio	
This product does no	t require a classification for transport.
Regulatory informati	on
Safety, health and environ	mental regulations/legislation specific for the substance or mixture
This Safety Data She	et is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission

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 informatio	n
H-Statement Full	Texts
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351	Suspected of causing cancer
H413	May cause long lasting harmful effects to aquatic life
Abbreviations Fu	ıll 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

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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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