GX2060 v2.0



Safety Data Sheet

www.glentham.com

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

1.1 Product identifier

Product code	: GX2060
Product name	: Palladium(II) nitrate solution
CAS number	: 10102-05-3
Physical form	: liquid, mixture
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

H290	Met. Corr. 1
H314	Skin Corr. 1B
H318	Eye Dam. 1
H332	Acute Tox. 4

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
Precautionary statemer	nts
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
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 vapors.
P264	Do not breathe fume.
P406	Store in corrosive resistant polyethylene container with a resistant inliner.
Other hazards	

PBT

2.3

Glentham

Safety Data Sheet

www.glentham.com

This substance is not identified as a PBT substance.

	-
Mixtures	
First aid measure	S
Description of firs	at 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. Wash immediately with plenty of soap and water.
Eye contact	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
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. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.

Skin contact Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be mild irritation at the site of contact. Eye contact Corneal burns may occur. May cause permanent damage. There may be irritation and redness. Ingestion Blood may be vomited. Convulsions may occur. Corrosive burns may appear around the lips. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation. There may be bleeding from the mouth or nose. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. Inhalation Convulsions may occur. Drowsiness or mental confusion may occur. Exposure may cause coughing or wheezing. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. Delayed / immediate effects Convulsions may occur. Drowsiness or mental confusion may occur. Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose. There may be loss of consciousness.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. 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. Toxic.

5.3 Advice for fire-fighters

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

GX2060 v2.0

Glentham

Safety Data Sheet

www.glentham.com

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. Do not create dust. 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.

6.2 Environmental precautions

Alert the neighbourhood to the presence of fumes or gas. 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. Absorb into dry earth or sand.

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 exhaust ventilation of the area. 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 exhaust ventilation of the area. 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. Self-contained breathing apparatus must be used in handling.
Hand protection	Protective gloves.
Eye protection	Ensure eye bath is to hand. Tightly fitting safety goggles. Safety glasses.
Skin protection	Protective clothing.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Yellow
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.
pH	No data available.

Glentham LIFE SCIENCES

GX2060 v2.0

Safety Data Sheet

www.glentham.com

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.

^{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.

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

No data available.

b) Skin corrosion/irritation Skin corrosion/irritation (Category 1B)

c) Serious eye damage/irritation Serious eye damage/eye irritation (Category 1)

- 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.
- Aspiration hazardNo data available.
- 11.2 Symptoms / routes of exposure

Glentham LIFE SCIENCES

Safety Data Sheet

www.glentham.com

Skin contact				
	Blistering may occur. Prog mild irritation at the site of		ccur if treatment is not imm	ediate. There may be
Eye contact	Corneal burns may occur.	May cause permanent	damage. There may be irrit	ation and redness.
Ingestion	Inhalation of fumes from th	ne stomach may cause s or nose. There may be lo	orrosive burns may appear symptoms similar to direct i ss of consciousness. There	nhalation. There may be
Inhalation			nfusion may occur. Exposu a. There may be shortness o	
Delayed / immediate effects	-		nfusion may occur. Immedia bleeding from the mouth o	
Other information	No data available.			
Ecological information				
Toxicity				
No data available.				
Persistence and degrad	dability			
Biodegradable.				
Bioaccumulative poten	itial			
No bioaccumulation pot	tential.			
Mobility in soil				
Readily absorbed into s	soil.			
Results of PBT and vP	vB assessment			
This substance is not ic	lentified as a PBT substanc	e.		
Endocrine disrupting p	properties			
This substance is not ic	lentified as having endocrin	e disrupting properties		
Other adverse effects				
No data available.				
Disposal consideration	IS			
•				
Waste treatment metho	Jas			
	bas			
Disposal operations	ontainer and arrange for col	llection by specialised d	isposal company.	
Disposal operations Transfer to a suitable co		llection by specialised d	isposal company.	
NB				sposal.
Disposal operations Transfer to a suitable of NB The user's attention is o	ontainer and arrange for col			sposal.
Disposal operations Transfer to a suitable o NB The user's attention is o	ontainer and arrange for col			sposal. RID
Disposal operations Transfer to a suitable of NB The user's attention is o Transport information	ontainer and arrange for col drawn to the possible existe	nce of regional or nation	nal regulations regarding dia	
Disposal operations Transfer to a suitable of NB The user's attention is of Transport information ADR	ontainer and arrange for col drawn to the possible existe	nce of regional or nation	nal regulations regarding dia	
Disposal operations Transfer to a suitable of NB The user's attention is of Transport information ADR 14.1. UN number	ontainer and arrange for col drawn to the possible existe IMDG UN3264	IATA	nal regulations regarding dia	RID

12. 12.1

12.2

12.3

12.4

12.5

12.6

12.7

13. 13.1

14.

Glentham LIFE SCIENCES

Safety Data Sheet

www.glentham.com

Transport document descrip	tion			
UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PALLADIUM(II) NITRATE SOLUTION), 8, II	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PALLADIUM(II) NITRATE SOLUTION), 8, II	UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Palladium(II) nitrate solution), 8, II	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PALLADIUM(II) NITRATE SOLUTION), 8, II	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PALLADIUM(II) NITRATE SOLUTION), 8, II
14.3. Transport hazard class	(es)			
8	8	8	8	8
a a a a a a a a a a a a a a a a a a a	1	1	No. of the second secon	A A A A A A A A A A A A A A A A A A A
14.4. Packing group				
П	11	II	II	11

15.	Regulator	v information
15.	Regulator	y information

No

14.5. Environmental hazards

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No

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

No

No

Authorisations/Restrictions		
Regulation (EC) 1907/2006, REACH, Annex XIV list of substances su authorisation:	bject to N	lo data available.
Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the m on the market and use of certain dangerous substances:	anufacture, placing N	lo data available.
Regulation (EC) 1005/2009 on substances that deplete the ozone laye	er: N	lo data available.
Regulation (EC) 850/2004 on persistent organic pollutants, amended 2019/1021:	oy (EU) No N	lo data available.

No

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

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

GX2060 v2.0



Safety Data Sheet

www.glentham.com

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

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.