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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	: GX9934
Product name	: Iodine Powder, crystalline, resublimed, ACS, 99.8+%
CAS number	: 7553-56-2
EINECS	: 231-442-4
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

H312	Acute Tox. 4
H315	Skin Irr. 2
H318	Eye Dam. 1
H332	Acute Tox. 4
H335	STOT SE 3
H336	STOT SE 3
H372	STOT RE 1
H400	Aquatic Acute 1

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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P302+P352 P305+P351+P338	IF ON SKIN: wash with plenty of water. 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.
P314	Get medical advice/attention if you feel unwell.
P264	Do not breathe fume.

2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
lodine Powder, crystalline, resublimed, ACS, 99.8+%	CAS: 7553-56-2 EC: 231-442-4 REACH: Not applicable	99.8%	H312, Acute Tox. 4 H315, Skin Irr. 2 H318, Eye Dam. 1 H332, Acute Tox. 4 H335, STOT SE 3 H336, STOT SE 3 H372, STOT RE 1 H400, Aquatic Acute 1

4. First aid measures

4.1 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. Transfer to hospital if there are burns or symptoms of poisoning.
Eye contact	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
ngestion	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.
nhalation	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. Transfer to hospital as soon as possible. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.
ost important sym	ptoms and effects, both acute and delayed
Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be irritation and redness at the site of contact.
Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness.
Eye contact Ingestion Inhalation	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be soreness and redness of the

4.3 Indication of any immediate medical attention and special treatment needed

4.2



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Immediate / special treatment

Do not induce vomiting. 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.

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

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. 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. 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

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.

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. The floor of the storage room must be impermeable to prevent the escape of liquids. 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					
Substance (CAS)	Control Parameter	Value	Notes	Source	
lodine (7553-56-2)	Short-term Exposure Limit (ppm)	0.1	UK HSE EH40/2		
	Short-term Exposure Limit (mg m ⁻³)	1.1			

8.2 Exposure controls

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Engineering measures	The floor of the storage room must be impermeable to prevent the escape of liquids. 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	Tightly fitting safety goggles. Ensure eye bath is to hand. Safety glasses.		
Skin protection	Protective clothing.		
Environmental	The floor of the storage room must be impermeable to prevent the escape of liquids.		

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Grey
Odour	No data available.
Melting point/Freezing point	113.6 °C
Boiling point/initial boiling point/boiling range	184.4 °C @ Press: 800 Torr
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	4.900
Relative vapour pressure	No data available.
Particle characteristics	No data available.
ther information	

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 lodine

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	LD50 Rat (Oral): 14 g LD50 Mouse (Oral): 2	
	LD50 Rabbit (Oral): 1	10 g/kg
b)	Skin corrosion/irritat	
c)	Serious eye damage. Serious eye damage.	/irritation /eye irritation (Category 1)
d)	Respiratory or skin s	
	No data available.	
e)	Germ cell mutagenic No data available.	ity
f)	Carcinogenicity	
	No data available.	
g)	Reproductive toxicit No data available.	у
h)	STOT-single exposu	re
	Specific target organ	toxicity, single exposure; Respiratory tract irritation (Category 3)
i)	STOT-repeated expo Specific target organ	sure toxicity, repeated exposure (Category 1)
j)	Aspiration hazard	
	No data available.	
11.2	Symptoms / routes o	of exposure
	Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be irritation and redness at the site of contact.
	Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness.
	Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be soreness and redness of the mouth and throat. There may be vomiting.
	Inhalation	Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a
		burning sensation in the throat. There may be vomiting.
	Delayed / immediate effects	
		burning sensation in the throat. There may be vomiting. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.
12.	effects	burning sensation in the throat. There may be vomiting. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. No data available.
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12.1	effects Other information Ecological information Toxicity No data available. Persistence and deg No data available.	burning sensation in the throat. There may be vomiting. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. No data available. on radability
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12.1 12.2 12.3 12.4	effects Other information Ecological information Toxicity No data available. Persistence and deg No data available. Bioaccumulative pot No data available. Mobility in soil Readily absorbed inte Results of PBT and v	burning sensation in the throat. There may be vomiting. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. No data available. on rradability tential o soil.
12.1 12.2 12.3 12.4	effects Other information Ecological information Toxicity No data available. Persistence and deg No data available. Bioaccumulative pot No data available. Mobility in soil Readily absorbed inte Results of PBT and v	burning sensation in the throat. There may be vomiting. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. No data available. on radability tential o soil. vPvB assessment t identified as a PBT substance.



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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				
UN3495	UN3495	UN3495	UN3495	UN3495
14.2. UN proper shipping na	ime			
IODINE	IODINE	lodine	IODINE	IODINE
Transport document descri	ption			
UN3495 IODINE, 8 (6.1), III	UN3495 IODINE, 8 (6.1), III	UN3495 lodine, 8 (6.1), III	UN3495 IODINE, 8 (6.1), III	UN3495 IODINE, 8 (6.1), III
14.3. Transport hazard class	s(es)			
8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
	8	8		
14.4. Packing group				
III	III	Ш	III	III
14.5. Environmental hazard	S			
No	No	No	No	No

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 authorisation:	No data available.
Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, place on the market and use of certain dangerous substances:	cing 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

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H-Statement Full Texts		
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
H372	Causes damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	
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	
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) 2020/787.

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