

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

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product code : GX7564  
Product name : Iodine, resublimed, 99.5%  
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 Leaffield Way	Fax	: +44 (0) 2033 978 909
	Corsham SN13 9SW	Email	: <a href="mailto:info@glentham.com">info@glentham.com</a>
	United Kingdom	Web	: <a href="http://www.glentham.com">www.glentham.com</a>

### 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



GHS05 GHS07 GHS08 GHS09

#### 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.

P301+P312 IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.  
 P302+P352 IF ON SKIN: wash with plenty of water.  
 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.  
 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
Iodine, resublimed, 99.5%	CAS: 7553-56-2 EC: 231-442-4 REACH: Not applicable	99.5%	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**

<b>Skin contact</b>	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.
<b>Eye contact</b>	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
<b>Ingestion</b>	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.
<b>Inhalation</b>	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.

**4.2 Most important symptoms and effects, both acute and delayed**

<b>Skin contact</b>	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.
<b>Eye contact</b>	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness. There may be pain and redness.
<b>Ingestion</b>	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 irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.
<b>Inhalation</b>	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.
<b>Delayed / immediate effects</b>	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose.

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

##### 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. 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
Iodine (7553-56-2)	Short-term Exposure Limit (ppm)	0.1		UK HSE EH40/2005
	Short-term Exposure Limit (mg m <sup>-3</sup> )	1.1		

#### 8.2 Exposure controls

<b>Engineering measures</b>	Ensure there is sufficient ventilation of the area.
<b>Respiratory protection</b>	Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
<b>Hand protection</b>	Protective gloves.
<b>Eye protection</b>	Tightly fitting safety goggles. Ensure eye bath is to hand. Safety glasses.
<b>Skin protection</b>	Protective clothing.

## 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.
pH	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.

### 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

##### Iodine

LD50 Rat (Oral): 14 g/kg

LD50 Mouse (Oral): 22 g/kg

LD50 Rabbit (Oral): 10 g/kg

#### b) Skin corrosion/irritation

Skin corrosion/irritation (Category 2)

- 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**  
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)
- i) **STOT-repeated exposure**  
Specific target organ toxicity, repeated exposure (Category 1)
- j) **Aspiration hazard**  
No data available.

#### 11.2 Symptoms / routes 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. There may be mild irritation 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. There may be pain 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 irritation of the throat. 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	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose.
Other information	No data available.

#### 12. Ecological information

- 12.1 **Toxicity**  
No data available.
- 12.2 **Persistence and degradability**  
No data available.
- 12.3 **Bioaccumulative potential**  
No data available.
- 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

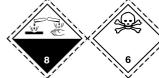
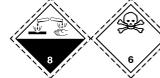
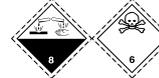
##### Disposal operations

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN3495	UN3495	UN3495	UN3495	UN3495
<b>14.2. UN proper shipping name</b>				
IODINE	IODINE	Iodine	IODINE	IODINE
<b>Transport document description</b>				
UN3495 IODINE, 8 (6.1), III	UN3495 IODINE, 8 (6.1), III			
<b>14.3. Transport hazard class(es)</b>				
8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
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, 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

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

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