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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 : GK5945 Product name : Iodine, Ph. Eur. : 7553-56-2 CAS number **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)

2.1

#### **Hazards identification** 2.

## Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H312 Acute Tox. 4 Skin Irr. 2 H315 H318 Eye Dam. 1 H319 Eye Irr. 2A Acute Tox. 4 H332 STOT SE 3 H335 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 H319 Causes serious eye irritation 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** 



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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.

#### Other hazards

This substance is not identified as a PBT substance.

#### Composition/information on ingredients 3.0

#### 3.1 Substances

Name	Identifier	%	Classification
lodine, Ph. Eur.	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 H319, Eye Irr. 2A 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. 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. Transfer to hospital as soon as possible. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.
ost important sy	Imptoms and effects, both acute and delayed

## 4.2

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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.

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GK5945 v3.0



## **Safety Data Sheet**

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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.

#### 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

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Substance (CAS)	Control Parameter	Value	Notes	Source
lodine (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

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	Tightly fitting safety goggles. 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 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
Lower/Upper explosion limit
Flash Point
No data available.
No data available.
No data available.
Auto-ignition temperature
No data available.
Decomposition temperature
No data available.
PH
No data available.
Kinematic viscosity
No data available.

Kinematic viscosity

Solubility

Partition coefficient n-octanol/water

Vapour pressure

No data available.

No data available.

No data available.

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.

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#### 11. Toxicological information

#### 11.1 Information on toxicological effects

#### a) Acute toxicity

#### lodine

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 2A) 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.

### 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.

## 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.

#### 11.2.2 Other information

No additional information

#### 12. Ecological information

#### 12.1 Toxicity

No data available.

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#### 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.

NF

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
14.1. UN number				
UN3495	UN3495	UN3495	UN3495	UN3495
14.2. UN proper shipping na	ame			
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				
14.4. Packing group				
III	III	III	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) 2020/878.

Authorisations/Restrictions



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Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to

No data available.

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing No data available.

on the market and use of certain dangerous substances:

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 No data available.

2019/1021:

#### Chemical safety assessment 15.2

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**

Harmful in contact with skin H312 H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation 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

SC

**IMDG** The International Maritime Dangerous Goods Code

IΡ Intraperitoneal IV Intravascular LD50 Lethal Dose 50%

LOEC Lowest Observable Effective Concentration

LTEL Long Term Exposure Limit

NOEC No Observable Effective Concentration

OFCD 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

SDS Safety Data Sheet STEL Short Term Exposure Limit STOT Specific Target Organ Toxicity VOC Volatile Organic Compounds

Subcutaneous

vPvB Very Persistent and Very Bioaccumulative

WFI Workplace Exposure Limits

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