

# SAFETY DATA SHEET

## Lugols Iodine

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** Lugols Iodine  
**Product number** PL.7052,PL.7053,PL.7053-2

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Laboratory reagent.  
**Uses advised against** No specific uses advised against are identified.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Pro-Lab Diagnostics  
3 Bassendale Road  
Wirral  
Merseyside  
CH62 3QL  
Tel: 0151 353 1613  
Fax: 0151 353 1614  
mowen@pro-lab.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0)151 353 1613 Monday to Friday 9.00 to 17.00  
+44 (0)7714 429 646 outside the above hours

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** ---

#### 2.2. Label elements

**Hazard statements** NC Not Classified  
**Supplemental label information** EUH210 Safety data sheet available on request.

#### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

## Lugols Iodine

<b>Ethanol</b>	<b>2.5 - &lt;5%</b>
CAS number: 64-17-5	EC number: 200-578-6
Substance with National workplace exposure limits.	
<b>Classification</b> Flam. Liq. 2 - H225	<b>Classification (67/548/EEC or 1999/45/EC)</b> F; R11
<b>Potassium iodide</b>	<b>1 - &lt;2.5%</b>
CAS number: 7681-11-0	EC number: 231-659-4
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn; R22. Xi; R36/38
<b>Iodine</b>	<b>0.5 - &lt;1%</b>
CAS number: 7553-56-2	EC number: 231-442-4
M factor (Acute) = 1	
<b>Classification</b> Acute Tox. 4 - H312 Acute Tox. 4 - H332 Aquatic Acute 1 - H400	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn; R20/21. N; R50
<b>Methanol</b>	<b>0.25 - &lt;0.5%</b>
CAS number: 67-56-1	EC number: 200-659-6
	REACH registration number: 01-2119433307-44-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370	<b>Classification (67/548/EEC or 1999/45/EC)</b> F; R11. T; R23/24/25, R39/23/24/25

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Skin contact</b>	Wash skin thoroughly with soap and water.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Irritation of nose, throat and airway.
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## Lugols Iodine

<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	May cause temporary eye irritation.

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

<b>Notes for the doctor</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

### **5.2. Special hazards arising from the substance or mixture**

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

### **5.3. Advice for firefighters**

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### **6.2. Environmental precautions**

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up** Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

### **6.4. Reference to other sections**

**Reference to other sections** See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Usage precautions** Read and follow manufacturer's recommendations.

**Advice on general occupational hygiene** Avoid contact with eyes and prolonged skin contact.

### **7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions** Store in a cool and well-ventilated place.

### **7.3. Specific end use(s)**

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: Exposure Controls/personal protection**

## Lugols Iodine

### 8.1. Control parameters

#### Occupational exposure limits

##### Ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

##### Iodine

Short-term exposure limit (15-minute): WEL 0.1 ppm 1.1 mg/m<sup>3</sup>

##### Methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

### 8.2. Exposure controls

#### Eye/face protection

No specific eye protection required during normal use.

#### Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

#### Hygiene measures

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Dark brown.
Odour	Alcoholic. Almost odourless.
Odour threshold	Not determined.
pH	Not determined.
Melting point	Not relevant.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not relevant.
Upper/lower flammability or explosive limits	Not relevant.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Bulk density	Not determined.

## Lugols Iodine

<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not relevant.
<b>Decomposition Temperature</b>	Not relevant.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

### 9.2. Other information

<b>Other information</b>	No information required.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Will not polymerise.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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<b>ATE oral (mg/kg)</b>	32,100.15247572
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#### Acute toxicity - dermal

<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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<b>ATE dermal (mg/kg)</b>	70,658.89418831
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#### Acute toxicity - inhalation

<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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<b>ATE inhalation (gases ppm)</b>	164,870.75310605
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<b>ATE inhalation (vapours mg/l)</b>	706.58894188
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## Lugols Iodine

### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

### Toxicological information on ingredients.

#### Ethanol

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 10,470.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information. Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 10,470.0

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 124.7

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** REACH dossier information. Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)** 124.7

##### Skin corrosion/irritation

## Lugols Iodine

**Animal data** Dose: 0.2 ml, 24 hours, Rabbit Primary dermal irritation index: 0 / 8 REACH dossier information. Not irritating.

### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Mouse: Not sensitising. REACH dossier information. Read across data. Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Carcinogenicity

**IARC carcinogenicity** IARC Group 1 Carcinogenic to humans.

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 15 %, Oral, Mouse P REACH dossier information.

**Reproductive toxicity - development** Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** LOAEL 4 mL/Kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

## Potassium iodide

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,000.0

**Species** Mouse

**Notes (oral LD<sub>50</sub>)** Raw material suppliers' information.

**ATE oral (mg/kg)** 1,000.0

### Skin corrosion/irritation

**Animal data** Dose: 0.5 g, 24 hours, Rabbit REACH dossier information. Moderately irritating. Skin Irrit. 2 - H315 Causes skin irritation.

### Serious eye damage/irritation

**Serious eye damage/irritation** REACH dossier information. Eye Irrit. 2 - H319 Causes serious eye irritation.

### Skin sensitisation

**Skin sensitisation** Patch test - Human: Not sensitising. REACH dossier information.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Negative. REACH dossier information.

## Lugols Iodine

### Iodine

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 1,425.0

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** REACH dossier information.

**ATE dermal (mg/kg)** 1,425.0

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 4.588

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** REACH dossier information.

**ATE inhalation (dusts/mists mg/l)** 4.588

#### Skin corrosion/irritation

**Human skin model test** Cell Viability (11%) 15 minutes REACH dossier information.

#### Skin sensitisation

**Skin sensitisation** Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Screening - NOAEL 10 mg/kg/day, Oral, Rat F1 REACH dossier information.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 10 mg/kg/day, Oral, Rat REACH dossier information. No evidence of reproductive toxicity in animal studies.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 3 mg/l, Oral, Rat REACH dossier information.

### Methanol

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** International Programme on Chemical Safety (IPCS) (1997) Environmental Health Criteria 196: Methanol. Geneva, World Health Organization. Toxic if swallowed.

**ATE oral (mg/kg)** 300.0

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Converted acute toxicity point estimate (cATpE) Toxic in contact with skin.

**ATE dermal (mg/kg)** 300

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Converted acute toxicity point estimate (cATpE) Toxic if inhaled.



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**ATE inhalation (gases ppm)** 700.0

**ATE inhalation (vapours mg/l)** 3.0

### Skin corrosion/irritation

**Animal data** Dose: 2.5cm x 2.5cm, 20 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.

### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 1 - H370

**Target organs** Eyes Central nervous system

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

### Ecological information on ingredients.

#### Ethanol

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia dubia REACH dossier information.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 11.5 mg/l, Chlorella vulgaris REACH dossier information.

**Chronic toxicity - aquatic invertebrates** NOEC, 9 days: 9.6 mg/l, Daphnia magna REACH dossier information.

#### Potassium iodide

**Acute toxicity - fish** LC<sub>0</sub>, 96 hours: 100 mg/l, Brachydanio rerio (Zebra Fish) NOEC, 7 days: 100 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information.

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 24 hours: 226 mg/l, dreissena polymorpha (zebra mussel) REACH dossier information.

**Acute toxicity - aquatic plants** MIC<sub>100</sub>, 10 days: 356.8 mg/l, Dunaliella salina REACH dossier information.

## Lugols Iodine

<b>Acute toxicity - microorganisms</b>	MIC <sub>100</sub> , 24 hours: 358.3 mg/l, Staphylococcus auerus REACH dossier information.
<b>Chronic toxicity - fish early life stage</b>	LC <sub>100</sub> , 22 days: 166002.8 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.

### Iodine

<b>Toxicity</b>	Aquatic Acute 1 - H400 Very toxic to aquatic life.
<b><u>Acute aquatic toxicity</u></b>	
<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
<b>M factor (Acute)</b>	1
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 1.67 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 0.55 - 0.59 mg/l, Daphnia magna REACH dossier information.
<b>Acute toxicity - aquatic plants</b>	NOEC, 72 hours: 0.025 mg/l, Desmodemus subspicatus EC <sub>50</sub> , 72 hours: 0.13 mg/l, Desmodemus subspicatus REACH dossier information.
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 3 hours: 280 mg/l, Activated sludge EC <sub>10</sub> , 3 hours: 110 mg/l, Activated sludge REACH dossier information.

### Methanol

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill) EC <sub>50</sub> , 96 hours: 12700 mg/l, Lepomis macrochirus (Bluegill) REACH dossier information.
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 96 hours: 18260 mg/l, Daphnia magna REACH dossier information.
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: ~ 22000 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
<b>Acute toxicity - microorganisms</b>	IC <sub>50</sub> , 3 hours: >1000 mg/l, Activated sludge REACH dossier information.

## 12.2. Persistence and degradability

**Persistence and degradability** No data available.

## Ecological information on ingredients.

### Ethanol

<b>Biodegradation</b>	Water - Degradation (74%): 10 days REACH dossier information. The substance is readily biodegradable.
<b>Chemical oxygen demand</b>	1.99 g O <sub>2</sub> /g substance REACH dossier information.

## Lugols Iodine

### Potassium iodide

**Biodegradation** Soil - Half-life : 720 hours  
 Water and sediment - Half-life : 360 hours  
 Water - Degradation (50%): 360 hours  
 Calculation method.  
 REACH dossier information.  
 The substance is readily biodegradable.

### Iodine

**Phototransformation** Air - DT<sub>50</sub> : 0.14 minutes  
 REACH dossier information.

### Methanol

**Phototransformation** Air - DT<sub>50</sub> : 17.2 days  
 REACH dossier information.

**Biodegradation** Water - Degradation (95%): 20 days  
 Water - Degradation (91%): 15 days  
 Water - Degradation (88%): 10 days  
 Water - Degradation (76%): 5 days  
 REACH dossier information.  
 The substance is readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### Ecological information on ingredients.

### Ethanol

**Partition coefficient** log Pow: - 0.35 REACH dossier information.

### Potassium iodide

**Bioaccumulative potential** BCF: 2.268, Fish Calculation method. REACH dossier information.

**Partition coefficient** Pow: 0.11 REACH dossier information.

### Iodine

**Partition coefficient** log Pow: 2.49 REACH dossier information.

### Methanol

**Partition coefficient** log Pow: -0.77 REACH dossier information.

### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

### Ecological information on ingredients.

## Lugols Iodine

### Ethanol

**Surface tension** 24.5 mN/m @ 20°C/68°F REACH dossier information.

### Potassium iodide

**Adsorption/desorption coefficient** Soil - Koc: 13.22 @ 25°C Calculation method. REACH dossier information.

**Henry's law constant** 3.717E-18 Pa m<sup>3</sup>/mol @ 25°C Calculation method. REACH dossier information.

### Iodine

**Adsorption/desorption coefficient** Soil - Kd: 0.13 - 7.7 @ 20°C REACH dossier information.

**Henry's law constant** 0.02961 - 0.03257 Pa m<sup>3</sup>/mol @ 20°C REACH dossier information.

### Methanol

**Mobility** Mobile.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

**Other adverse effects** Not determined.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations

### **SECTION 14: Transport information**

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

## Lugols Iodine

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

Not applicable.

## SECTION 15: Regulatory information

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

<b>National regulations</b>	EH40/2005 Workplace exposure limits. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Not classified.: Calculation method.
<b>Revision comments</b>	Classification according to EC 1272/2008 (CLP).
<b>Revision date</b>	09/04/2015
<b>Revision</b>	6
<b>Supersedes date</b>	01/04/2014
<b>SDS number</b>	807
<b>Risk phrases in full</b>	R11 Highly flammable. R20/21 Harmful by inhalation and in contact with skin. R22 Harmful if swallowed. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R36/38 Irritating to eyes and skin. R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R50 Very toxic to aquatic organisms.

## Lugols Iodine

### Hazard statements in full

H225 Highly flammable liquid and vapour.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H370 Causes damage to organs (Eyes, Central nervous system).  
H400 Very toxic to aquatic life.

The information in this safety data sheet was obtained from current and reliable sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Pro-Lab Diagnostics control, it is the users responsibility to perform thorough testing of this product when used in combination with any other product. It is suggested that users familiarise themselves with this safety data sheet before handling the product.