

SAFETY DATA SHEET

Lugols Iodine

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 No. 758, as amended.

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 (SI 2019 No. 720)

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

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

| | |
|--|----------------------|
| ethanol | 2.5 - <5% |
| CAS number: 64-17-5 | EC number: 200-578-6 |
| Substance with National workplace exposure limits. | |
| Classification | |
| Flam. Liq. 2 - H225 | |
| Eye Irrit. 2 - H319 | |
| potassium iodide | 1 - <2.5% |
| CAS number: 7681-11-0 | EC number: 231-659-4 |
| Classification | |
| Acute Tox. 4 - H302 | |
| Skin Irrit. 2 - H315 | |
| Eye Irrit. 2 - H319 | |

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. |
| Ingestion | 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. |
| Skin contact | Wash skin thoroughly with soap and water. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Continue to rinse. |

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

| | |
|---------------------|--|
| Inhalation | Irritation of nose, throat and airway. |
| Ingestion | May cause discomfort if swallowed. |
| Skin contact | Prolonged skin contact may cause redness and irritation. |
| Eye contact | May cause temporary eye irritation. |

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

| | |
|-----------------------------|---|
| Notes for the doctor | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
|-----------------------------|---|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
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| 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. |
|--------------------------------------|--|

Lugols Iodine

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

8.1. Control parameters

Occupational exposure limits

ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

iodine

Short-term exposure limit (15-minute): WEL 0.1 ppm 1.1 mg/m³

methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

iodine (CAS: 7553-56-2)

DNEL

Workers - Inhalation; Long term systemic effects: 0.07 mg/m³

Workers - Dermal; Long term systemic effects: 0.01 mg/kg/day

Lugols Iodine

| | |
|-------------|---|
| PNEC | <ul style="list-style-type: none"> - Fresh water; 18.13 µg/L - marine water; 60.01 µg/L - STP; 11 mg/l - Sediment (Freshwater); 3.99 mg/kg - Sediment (Marinewater); 20.22 mg/kg - Soil; 5.95 mg/kg |
|-------------|---|

methanol (CAS: 67-56-1)

| | |
|-------------|--|
| DNEL | <p>Workers - Inhalation; Long term systemic effects: 260 mg/m³</p> <p>Workers - Inhalation; Short term systemic effects: 260 mg/m³</p> <p>Workers - Inhalation; Long term local effects: 260 mg/m³</p> <p>Workers - Inhalation; Short term local effects: 260 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 40 mg/kg/day</p> <p>Workers - Dermal; Short term systemic effects: 40 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 50 mg/m³</p> <p>General population - Inhalation; Short term systemic effects: 50 mg/m³</p> <p>General population - Inhalation; Long term local effects: 50 mg/m³</p> <p>General population - Inhalation; Short term local effects: 50 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 8 mg/kg/day</p> <p>General population - Dermal; Short term systemic effects: 8 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 8 mg/kg/day</p> <p>General population - Oral; Short term systemic effects: 8 mg/kg/day</p> |
| PNEC | <ul style="list-style-type: none"> - Fresh water; 20.8 mg/l - Fresh water, Intermittent release; 1540 mg/l - marine water; 2.08 mg/l - STP; 100 mg/l - Sediment (Freshwater); 77 mg/kg - Sediment (Marinewater); 7.7 mg/kg - Soil; 100 mg/kg |

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. |

Lugols Iodine

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

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Lugols Iodine

| | |
|--|---|
| Notes (oral LD₅₀) | Based on available data the classification criteria are not met. |
| ATE oral (mg/kg) | 41,522.74 |
| <u>Acute toxicity - dermal</u> | |
| Notes (dermal LD₅₀) | Based on available data the classification criteria are not met. |
| ATE dermal (mg/kg) | 141,179.29 |
| <u>Acute toxicity - inhalation</u> | |
| Notes (inhalation LC₅₀) | Based on available data the classification criteria are not met. |
| ATE inhalation (gases ppm) | 329,418.35 |
| ATE inhalation (vapours mg/l) | 1,411.79 |
| <u>Skin corrosion/irritation</u> | |
| Animal data | Based on available data the classification criteria are not met. |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Based on available data the classification criteria are not met. |
| <u>Respiratory sensitisation</u> | |
| Respiratory sensitisation | Based on available data the classification criteria are not met. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Based on available data the classification criteria are not met. |
| <u>Germ cell mutagenicity</u> | |
| 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. |
| <u>Carcinogenicity</u> | |
| Carcinogenicity | Based on available data the classification criteria are not met. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | Based on available data the classification criteria are not met. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | Based on available data the classification criteria are not met. |
| <u>Aspiration hazard</u> | |
| Aspiration hazard | Not anticipated to present an aspiration hazard, based on chemical structure. |

Toxicological information on ingredients.

ethanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,470.0

Species Rat

Notes (oral LD₅₀) REACH dossier information. Based on available data the classification criteria are not met.

Lugols Iodine

| | |
|--|--|
| ATE oral (mg/kg) | 10,470.0 |
| <u>Acute toxicity - inhalation</u> | |
| Acute toxicity inhalation (LC₅₀ vapours mg/l) | 124.7 |
| Species | Rat |
| Notes (inhalation LC₅₀) | REACH dossier information. Based on available data the classification criteria are not met. |
| ATE inhalation (vapours mg/l) | 124.7 |
| <u>Skin corrosion/irritation</u> | |
| Animal data | Dose: 0.2 ml, 24 hours, Rabbit Primary dermal irritation index: 0 / 8 REACH dossier information. Not irritating. |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Dose: 0.1 mL, 21 days, Rabbit Causes eye irritation. REACH dossier information. |
| <u>Respiratory sensitisation</u> | |
| Respiratory sensitisation | Rat: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Read across data. Based on available data the classification criteria are not met. |
| <u>Germ cell mutagenicity</u> | |
| 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. |
| <u>Carcinogenicity</u> | |
| IARC carcinogenicity | IARC Group 1 Carcinogenic to humans. |
| <u>Reproductive toxicity</u> | |
| 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. |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | LOAEL 4 mL/Kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met. |

potassium iodide

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| <u>Acute toxicity - oral</u> | |
| Acute toxicity oral (LD₅₀ mg/kg) | 1,000.0 |

Lugols Iodine

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|---|--|
| Species | Mouse |
| Notes (oral LD₅₀) | Raw material suppliers' information. |
| ATE oral (mg/kg) | 1,000.0 |
| <u>Skin corrosion/irritation</u> | |
| Animal data | Dose: 0.5 g, 24 hours, Rabbit Moderately irritating. |
| <u>Serious eye damage/irritation</u> | |
| Serious eye damage/irritation | Causes serious eye irritation. |
| <u>Skin sensitisation</u> | |
| Skin sensitisation | Patch test - Human: Not sensitising. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | Gene mutation: Negative. |
| <u>Reproductive toxicity</u> | |
| Reproductive toxicity - development | Developmental toxicity: - NOAEL: 1 ppm, Oral, Rat |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | NOAEL 0.5 mg/kg/day, Oral, Rat |
| <u>iodine</u> | |
| <u>Acute toxicity - oral</u> | |
| Acute toxicity oral (LD₅₀ mg/kg) | 315.0 |
| Species | Rat |
| Notes (oral LD₅₀) | Supplier's information. Based on available data the classification criteria are not met. |
| ATE oral (mg/kg) | 315.0 |
| <u>Acute toxicity - dermal</u> | |
| Acute toxicity dermal (LD₅₀ mg/kg) | 1,425.0 |
| Species | Rabbit |
| Notes (dermal LD₅₀) | REACH dossier information. |
| ATE dermal (mg/kg) | 1,425.0 |
| <u>Acute toxicity - inhalation</u> | |
| Acute toxicity inhalation (LC₅₀ dust/mist mg/l) | 4.588 |
| Species | Rat |
| Notes (inhalation LC₅₀) | REACH dossier information. |
| ATE inhalation (dusts/mists mg/l) | 4.588 |

Lugols Iodine

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes.

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 - single exposure

STOT - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

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

Target organs Thymus

methanol

Acute toxicity - oral

Notes (oral LD₅₀) International Programme on Chemical Safety (IPCS) (1997) Environmental Health Criteria 196: Methanol. Geneva, World Health Organization. Toxic if swallowed.

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Converted acute toxicity point estimate (cATpE) Toxic in contact with skin.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Converted acute toxicity point estimate (cATpE) Toxic if inhaled.

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

Lugols Iodine

| | |
|--|--|
| Skin sensitisation | Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met. |
| <u>Germ cell mutagenicity</u> | |
| Genotoxicity - in vitro | Bacterial reverse mutation test: 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. |
| <u>Specific target organ toxicity - single exposure</u> | |
| STOT - single exposure | STOT SE 1 - H370 |
| Target organs | Eyes Central nervous system |
| <u>Specific target organ toxicity - repeated exposure</u> | |
| STOT - repeated exposure | LOAEL 2340 mg/kg/day, Oral, Monkey REACH dossier information. Based on available data the classification criteria are not met. |

SECTION 12: Ecological information

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

ethanol

Acute aquatic toxicity

| | |
|---|--|
| Acute toxicity - fish | LC ₅₀ , 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information. |
| Acute toxicity - aquatic invertebrates | LC ₅₀ , 48 hours: 5012 mg/l, Ceriodaphnia dubia REACH dossier information. |
| Acute toxicity - aquatic plants | EC ₅₀ , 72 hours: 275 mg/l, Chlorella vulgaris REACH dossier information. |

Chronic aquatic toxicity

| | |
|---|---|
| Chronic toxicity - fish early life stage | NOEC, 120 hours: 250 mg/l, Brachydanio rerio (Zebra Fish) |
| Chronic toxicity - aquatic invertebrates | NOEC, 9 days: 9.6 mg/l, Daphnia magna REACH dossier information. |

potassium iodide

Acute aquatic toxicity

| | |
|---|---|
| Acute toxicity - fish | LC ₅₀ , 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 ₅₀ , 24 hours: 226 mg/l, dreissena polymorpha (zebra mussel) REACH dossier information. |
| Acute toxicity - aquatic plants | MIC ₁₀₀ , 10 days: 356.8 mg/l, Dunaliella salina REACH dossier information. |

Lugols Iodine

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

iodine

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

methanol

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

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

Lugols Iodine

potassium iodide

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

iodine

| | |
|-------------------------------|---|
| Phototransformation | Water - DT ₅₀ : 0.14 minutes REACH dossier information. |
| Stability (hydrolysis) | pH5 - Half-life : ~ 0.005 minutes @ 20°C |

methanol

| | |
|----------------------------|--|
| Phototransformation | Water - DT ₅₀ : 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 Water - Koc: 13.22 @ 25°C Calculation method. REACH dossier information.

Henry's law constant 3.717E-18 Pa m³/mol @ 25°C Calculation method. REACH dossier information.

iodine

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

Henry's law constant 0.02961 - 0.03257 Pa m³/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.

Ecological information on ingredients.

ethanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

potassium iodide

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

iodine

Results of PBT and vPvB assessment Substance is inorganic.

methanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

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

Lugols Iodine

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.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

National regulations EH40/2005 Workplace exposure limits.
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 No. 758, as amended.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720, as amended.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to SI 2019 No. 720 Not classified.: Calculation method.

Revision comments Revised regulations.

Revision date 26/09/2022

Revision 8

Supersedes date 01/10/2017

SDS number 807

Hazard statements in full H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Lugols Iodine

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.