

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Company Name **ECP Limited**  
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|   |                    |                    |
|---|--------------------|--------------------|
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|---|--------------------|--------------------|

|                        |                         |             |                    |                        |                  |                              |
|------------------------|-------------------------|-------------|--------------------|------------------------|------------------|------------------------------|
| <b>Product</b>         | Lugol's Iodine Solution |             |                    |                        | <b>Code</b>      | 0319                         |
| <b>CAS#</b>            | <b>HSNO#</b>            | <b>UN #</b> | <b>DG Class/es</b> | <b>Packing group #</b> | <b>Tracking?</b> | <b>Handlers Certificate?</b> |
| 7553-56-2<br>7681-11-0 | NA                      | NA          | NA                 | NA                     | No               | No                           |

**Recommended use:** Laboratory Investigations

**2. Hazards identification**

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**3. Composition/information on ingredients**

3.2 Mixtures

Synonyms: Iodine/Potassium iodide solution

No components need to be disclosed according to the applicable regulations.

**4. First aid measures**

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Indication of any immediate medical attention and special treatment needed No data available

**5. Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

No data available

## 6. Accidental release measures

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

Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

## 7. Handling and storage

### 7.1 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Light sensitive.

Storage class (TRGS 510): Non Combustible Liquids

## 8. Exposure controls/personal protection

### 8.1 Control parameters

No control parameters.

### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Respiratory protection not required. For nuisance exposures use respirator cartridges. Use respirators and components tested and approved under appropriate government standards.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### a) Appearance

Form: liquid

#### b) Odour

No data available  
c) Odour Threshold  
No data available  
d) pH  
No data available  
e) Melting point/freezing point  
No data available  
f) Initial boiling point and boiling range  
No data available  
g) Flash point  
No data available  
h) Evaporation rate  
No data available  
i) Flammability (solid, gas)  
No data available  
j) Upper/lower flammability or explosive limits  
No data available  
k) Vapour pressure  
No data available  
l) Vapour density  
No data available  
m) Relative density  
1.007 g/cm<sup>3</sup> at 20 °C  
n) Water solubility  
No data available  
o) Partition coefficient: n-octanol/water  
No data available  
p) Auto-ignition temperature  
No data available  
q) Decomposition temperature  
No data available  
r) Viscosity  
No data available  
s) Explosive properties  
No data available  
t) Oxidizing properties  
No data available  
9.2 Other safety information  
No data available

## **10. Stability and reactivity**

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions

Nature of decomposition products not known

Other decomposition products

No data available

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Prolonged exposure to iodides may produce iodism in sensitive individuals, headache and irritation of the mucous membrane. For severe cases, blue spots on the skin. Iodides are readily diffused across the placenta. Neonatal cases have been reported. Iodides have been known to cause drug-induced fevers.

## 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

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Harmful to aquatic life.

### 13. Disposal considerations

#### 13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

### 14. Transport Information Table

|      |                                 | ADR/RID –<br>European packaging<br>certification | IMDG<br>International<br>Maritime Dangerous<br>Goods Code | IATA – DGR<br>International Air Travel<br>Association – Dangerous<br>Goods Regulations |
|------|---------------------------------|--|---|--|
| 14.1 | UN Number                       | -  | -   | -  |
| 14.2 | UN Proper Shipping<br>name      | Not dangerous<br>goods                           | Not dangerous<br>goods                                    | Not dangerous goods  |
| 14.3 | Transport Hazard<br>Class       | -  | -   | -  |
| 14.4 | Packaging group                 | -  | -   | -  |
| 14.5 | Environmental<br>Hazards        | No   | No  | No   |
| 14.6 | Special precautions<br>for user | No data available                                |   |  |

### 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
This safety datasheet complies with the requirements.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

### 16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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