

## **SAFETY DATA SHEET**

### 1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

*Identification of the substance/mixture:*

Name: Lugol's Solution  
Product code: LSB-03  
Abbreviation: LUGOL  
Use: A solution for Gram staining of microscopic preparations.

*Company/undertaking identification:*

Name: EnviroLab s.r.o.  
Address: Galvaniho 7, 821 04 Bratislava  
Phone: +421-2-69 307 112 Fax: +421-2-64 774 131  
Place of business: Obchodná ulica 7, 946 51 Nesvady  
Phone: +421-35-790 29 11

*Emergency line:*

Organization: National Toxicological Information Center, Limbová 5, 833 05 Bratislava  
Phone: +421-2-54 774 166

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### 2 – HAZARD IDENTIFICATION

The product is not classified as dangerous according to EU directives.

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### 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components:

INDEX	CAS	EC	Name	Classification	%
053-001-00-3	7553-56-2	231-442-4	Crystalline iodine	H332 H312 H319 H315 H372 H335 H400	0.5

For the full text of the H-statements specified in this section, see Section 16.

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### 4 – FIRST AID MEASURES

Following inhalation:

Move the victim to fresh air.

Following eye contact:

Rinse the eyes with eyelids open under running water for a few minutes.

Following skin contact:

Wash affected areas with plenty of water and remove contaminated clothing.

Following ingestion:

Let the victim drink water (no more than two glasses). In the case of nausea, consult a doctor.

## 5 – FIRE-FIGHTING MEASURES

### Suitable extinguishing media:

To extinguish use a snow, foam, water or powder fire extinguisher, depending on the materials stored in the immediate vicinity.

### Additional information:

Non-flammable.

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## 6 – ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Do not inhale fumes / aerosols.

### Cleaning methods:

Remove with absorbent material. Send for disposal. Clean the affected area.

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## 7 – HANDLING AND STORAGE

### Handling:

No further requirements.

### Storage:

Store in a dark bottle tightly closed. Store at 5 – 25 °C.

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## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits:

The product does not contain any substances with occupational exposure limit values.

### Hand protection:

Use disposable vinyl gloves.

### Eye protection:

Use safety glasses.

### Respiratory protection:

Required if vapors / aerosols are formed.

For more detailed information, see Section 11 – Toxicological Information

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## 9 – PHYSICAL AND CHEMICAL PROPERTIES

### Basic information:

Physical state:	liquid
Color:	brown
Odor:	a little pungent
pH value:	3.5 (at 20 °C)
Boiling point / distillation range:	100 °C

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## 10 – STABILITY AND REACTIVITY

### Conditions to be avoided:

Not known yet.

**Substances to be avoided:**

Generally known substances reacting with water.

**Hazardous decomposition products:**

Not known yet.

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**11 – TOXICOLOGICAL INFORMATION**

**Acute toxicity:**

Quantitative data on the toxicity of this product are not available

**Additional toxicological data:**

Dangerous properties cannot be ruled out but are unlikely, if the product is handled appropriately. Sensitization may occur with allergic symptoms in predisposed individuals.

**Additional information:**

The product should be handled with caution usual for chemicals handling.

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**12 – ECOLOGICAL INFORMATION**

**Ecotoxic effects:**

Quantitative data on the ecological effects of this product are not available.

**Other ecological data:**

For iodine compounds, the following applies in general: Biological effects: Crustaceans: D. magna EC<sub>50</sub>: 2.7 mg/l. Protozoans: toxic for E. sulcatum from 40 mg/l.

No ecological problems are to be expected, if the product is handled and used with due care and attention.

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**13 – DISPOSAL MEASURES**

**Product:**

The product is not hazardous waste and must be disposed of in accordance with valid legislation.

**Packaging:**

The product packaging must be disposed of in accordance with applicable legislation.

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**14 – TRANSPORT INFORMATION**

The product is not subject to transport regulations.

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**15 – REGULATORY INFORMATION**

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**16 – OTHER INFORMATION**

**Full text of H-data used in the Safety Data Sheet:**

H312 Harmful in contact with skin.  
H315 Irritating to skin.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H372 Causes respiratory damage.

H400 Very toxic to aquatic organisms.

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*The information provided in this Safety Data Sheet is based on the current state of our knowledge.  
It characterizes the product with respect to the adequate safety precautions. It does not represent any guarantee of the product's properties.*