

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Product name:	Iodine Solution
Product Number:	EX-P-72
Company:	BEIJING LAND BRIDGE TECHNOLOGY CO.,LTD.
Address:	NO.3 Gaobeidian North Road,Chaoyang District,Beijing, China
Postal code:	100123
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E-mail address:	info@beijinglandbridge.com
Recommended use and limited use:	Biochemical research / analysis

**2. HAZARDS IDENTIFICATION**

## Summary of emergency:

If breathed in, move person into fresh air; rinse with water or shower immediately after contact with skin; In case of contact with eyes, flush eyes with water; In case of ingestion, rinse mouth with water. Seek medical advice immediately if you feel unwell.

GHS Classification                      Acute (short-term) aquatic hazards                      Category 3

## Label element:

Pictogram:                      None                      Signal word: None

Hazard statement(s):                      H402 Harmful to aquatic life

Precautionary statement(s):                      P273 Avoid release into the environment

Storage:                      Lock the storage area.

Disposal:                      Dispose according to state regulations.

Physical and chemical hazards:                      Referring to current information, no physical or chemical hazard.

Health hazards:                      Referring to current information, no physical or chemical hazard.

Environmental hazards:                      Referring to current information, no physical or chemical hazard.

Other hazards:                      No data available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixtures: Chemical composition refer to the components on the medium label.

Component	CAS-No/EC-No.	Concentration
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Iodine	CAS: 7553-56-2 EC: 231-442-4	0.2%
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#### **4. FIRST AID MEASURES**

##### 4.1 Description of first aid measures

General advice:	No special measures
Inhalation:	Move to fresh air. Get medical attention immediately if symptoms occur.
Skin Contact:	Rinse immediately with water.
Eye Contact:	Immediately lift the eyelids and rinse with plenty of running water. Get medical attention if symptoms occur.
Ingestion:	Rinse mouth with water. Seek medical attention if you feel unwell.

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

##### 4.3 Indication of any immediate medical attention and special treatment required

No data available.

#### **5. FIREFIGHTING MEASURES**

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous Combustion Products:	No combustion supporting
Special hazards arising from the substance or mixture:	Carbon oxides, Sulphur oxides, Oxides of phosphorus, Hydrogen chloride gas, Hydrogen iodide, Potassium oxides, Sodium oxides, Magnesium oxides
Advice for firefighters:	Wear self-contained breathing apparatus to extinguish the fire.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions:	Wear experimental clothes, gloves and masks to avoid inhaling dust
Environmental precautions:	Prevent further leakage or spillage on the premise of ensuring safety.
Methods and materials for containment and cleaning up:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal (refer to protective measures listed in section 13). Clean the contaminated area, then alcohol disinfection.

#### **7. HANDLING AND STORAGE**

Precautions for safe handling:	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for safe storage, including any incompatibilities:	Store at 2-8°C in the dark.

## **8.EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Engineering Measures:

Provide emergency shower installations and eye showers.

### 8.2 Personal protective equipment:

Respiratory protection:	Wear a mask.
Eye protection:	Wear safety glasses with side-shields.
Hand protection:	Wear disposable latex or plastic gloves, wash hands before and after work.
Body Protection:	Wear experimental clothes, change dirty clothes in time.

Note: Select appropriate protective measures in accordance with the working conditions and the concentration of hazardous substances, and the chemical resistance of protective measures shall be provided by the manufacturer.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

pH:	See details in COA	Colour:	See details in COA
Odour:	No pungent odor	Water solubility:	Good solubility, clear and transparent without precipitation after the fully dissolution
Melting point /freezing point:	No data available	Initial boiling point and boiling range:	No data available
Explosive limits:			
Upper:	No data available	lower:	No data available
Vapour pressure:	No data available	Vapour density:	No data available
Relative density:	No data available	Partition Coefficient:(n-octanol/water)	No data available
Autoignition temperature:	No data available	Decomposition temperature:	No data available

## **10. STABILITY AND REACTIVITY**

Stability:	The unopened ones will not deteriorate if stored for one year under suitable conditions.
Conditions to avoid:	No data available

Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	No data available

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	No data available		
Skin corrosion/irritation:	No data available	Eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available	Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available	Reproductive toxicity:	No data available
Specific target organ toxicity:			
single exposure:	No data available	Aspiration hazard:	No data available
repeated exposure:	No data available		
Potential health effects:			
Inhalation:	May cause respiratory tract irritation	Ingestion:	May be harmful if swallowed
Skin:	May cause skin irritation	Eyes:	May cause eye irritation

### 12. ECOLOGICAL INFORMATION

Toxicity:	10mg/L < LC <sub>50</sub> Fish 96h ≤ 100mg/L; 10mg/L < EC <sub>50</sub> Crustacea 48h ≤ 100mg/L; 10mg/L < ErC <sub>50</sub> Algae or other aquatic plants 48 or 72h ≤ 100mg/L		
Persistence and degradability:	No data available	Bioaccumulative potential:	No data available
Mobility in soil:	No data available		

### 13. DISPOSAL CONSIDERATIONS

Product:

Dispose of remaining and non-recyclable solutions to a licensed company. (Data on chemical waste disposal companies and their contacts can be found at [www.zhb.gov.cn](http://www.zhb.gov.cn))

Contaminated packaging:

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

UN number: Not dangerous goods.

UN proper shipping name: Not dangerous goods.

Creation Date:2013.10.08 Revision Date:2025.01.01

Transport hazard class(es): Not dangerous goods.

Packaging group: Not dangerous goods.

Packing method: Packing according to manufacturer's method.

Marine pollutant(Yes/No): No.

Transportation Precautions: Please select the appropriate means of transportation and corresponding transportation and storage conditions according to the nature of chemicals.

#### **15. REGULATORY INFORMATION**

**Occupational Disease Prevention Law of the People's Republic of China:**

Classification of Occupational Disease Hazard Factors: Uncatalogued

GBZ2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace

Part 1 Chemical Harmful Factors: Uncatalogued

**Regulations on the Safety Management of Hazardous Chemicals:**

Hazardous and Chemicals Catalogue: Uncatalogued

Explosive Hazardous Chemicals Catalogue: Uncatalogued

**Hazardous Chemicals under Key Supervision Catalogue :**

Hazardous Chemicals under Key Supervision Catalogue: Uncatalogued

**Measures for Environmental Management of New Chemical Substances:**

Inventory of Existing Chemical Substances in China: Uncatalogued

**Other:**

Toxic and Hazardous Air Pollutants Catalogue: Uncatalogued

Prohibited Imports and Prohibited Exports Catalogue: Uncatalogued

Air Transport Dangerous Goods Catalogue: Uncatalogued

Inland Water Embargoed Hazardous Chemicals Catalogue: Uncatalogued

#### **16. OTHER INFORMATION**

**This revision revises the following sections:**

Part 13 - Recommendations for waste disposal.

Part 15 - Updating existing national laws and regulations.

**Training advice:**

It is recommended that operators be provided with adequate information, guidance and training.

**The above information is believed to be correct, but is not inclusive of all information and is used as a guide only.**

**The information in this document is based on our current knowledge as to the correct safety instructions applicable to this product.**