



BIOPHARM INC.

SAFETY DATA SHEET

1. Identification:

Product Identifier: Iodine Solution, various dilutions
BI4195 = 1.00 N BI4198 = 0.500 N BI8194 = 0.250 N BI4200 = 0.200 N
BI4205 = 0.100 N BI8202 = 0.0757N BI8190 = 0.050 N BI8195 = 0.0282N
BI8196 = 0.025 N BI4210 = 0.020 N BI4215 = 0.010 N BI8192 = 0.0025N
BI8188 = 0.001 N

Synonym(s): Iodine Aqueous Solutions
Recommended use: Manufacture of other chemical products, professional, scientific, and technical activities.
Recommended restrictions: None known.
Chemical family: Not Applicable
Formula: Not Applicable

Manufacturer/Supplier/Distributor Information

Company name: Biopharm Inc.
Address: 187 South Tilley Road
Hatfield, AR 71945
Telephone: (870) 389-6114
Website: www.bphchem.com
E-mail: support@bphchem.com
Emergency phone number: Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification: None. (Hazards do reach threshold required for least severe category.)
Label elements: None Required
Signal word: Warning
Hazard statement: None. May cause irritation to eyes or skin on contact.
Precautionary statement:
Prevention No data available.
Response No data available.
Storage Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight.
Disposal Flush to sewer in compliance with current local, state, and federal regulations.
Hazard(s) not otherwise classified (HNOC): Not classified.
Supplemental information: No data available.

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
Potassium Iodide	7681-11-0	5 - 20
Iodine	7553-56-2	< 1 - 13
Water	7732-18-5	Balance

4. First-aid measures

Inhalation:	Remove to fresh air, if necessary.
Ingestion:	Drink water as a precaution. Get medical attention if symptoms occur.
Skin contact:	Wash with warm water and soap. Get medical attention if symptoms occur.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes while holding lids gently, but firmly, apart. Lift upper and lower lids occasionally to ensure thorough flushing under them. Obtain medical assistance to prevent eye damage and visual impairment.
Most important symptoms/effects, acute and delayed:	No data available.
General information:	Persons with pre-disposition to sensitivity or impaired kidney function may be more susceptible to substance effects.

5. Fire-fighting measures

Suitable extinguishing media:	Any media necessary for extinguishing the surrounding fire.
Unsuitable extinguishing media:	No information available.
Specific hazards arising from the chemical	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
Special protective equipment and precautions for firefighters	Wear approved self-contained protective clothing.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:	Keep unnecessary personnel away. Use personal protective equipment. Ensure adequate ventilation.
Methods and materials for containment and cleaning up:	Wash spill area with soap and water. Flush to sewer in compliance with current local, state, and federal regulations.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling:	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.
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Conditions for safe storage, including any incompatibilities: Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight.

8. Exposure controls/personal protection

Exposure Guidelines:

<u>Component</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Potassium Iodide	TWA:0.01 ppm	Ceiling: 0.1 ppm

Engineering measures: General ventilation normally adequate. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment:

Eye/face protection: Wear protective eyeglasses or chemical safety goggles.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance: Dark brown solution with characteristic odor.

Odor: Characteristic

Odor threshold: No data available.

Vapor Pressure (mm Hg): No data available.

Vapor density (Air = 1): No data available.

pH: No data available.

Relative density: No data available.

Melting point/freezing point: No data available.

Solubility in Water: Infinite

Boiling Point (°F): No data available.

Flash point: Non-flammable.

Evaporative Rate (H₂O = 1): No data available.

Flammability (solid, gas): Non-flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower Not applicable.

Flammability limit - upper Not applicable.

Explosive limit - lower Not applicable.

Explosive limit - upper Not applicable.

Partition coefficient: n-octanol/water No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available

Viscosity: No data available

Other information:

Specific Gravity (H₂O = 1): No data available.

Percent Volatile by Volume: No data available.

*Varies with specific value. See chemical Handbook.

10. Stability and reactivity

Reactivity: No data available.

Chemical stability: Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: None under normal conditions.

Incompatible materials: None known

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors

11. Toxicological information

Information on likely routes of exposure:

Ingestion: None indicated.

Inhalation: None indicated.

Skin Contact: None indicated. May cause irritation to skin on contact.

Eye Contact: None indicated. May cause irritation to eyes on contact.

Information on toxicological effects

Acute toxicity Low hazard for usual industrial handling.

<u>Component</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
Potassium Iodide	2779 mg/kg (rat)	No data available	No data available
Iodine	14 g/kg (rat)	No data available	No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause irritation to skin on contact.

Serious eye damage/irritation May cause irritation to eyes on contact.

Respiratory Sensitization No data available.

Skin sensitization No data available.

Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA.

Mutagenic effects No data available.

Reproductive effects No data available.

STOT – single exposure No data available.

STOT – repeated exposure No data available.

Aspiration hazard No data available.

Chronic effects No data available.

12. Ecological information

Ecotoxicity: No data available.
Persistence and degradability: No data available.
Bioaccumulation/ Accumulation: No data available.
Mobility in soil: No data available
Other adverse effects: No data available

13. Disposal considerations

Waste disposal methods: To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.

14. Transport information

DOT: Not regulated as a hazardous material by DOT.

15. Regulatory information

U.S. Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated
CERCLA Hazardous Substances List (40 CFR 302.4)	Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard – No
 Delayed Hazard – No
 Fire Hazard – No
 Pressure Hazard – No
 Reactivity Hazard – No

Other Federal regulations

Clean Air Act Not applicable.
Clean Water Act Not regulated.
California Prop 65 This product does not contain any Proposition 65 chemicals.

16. Other information, including date of preparation or last revision

Revision date July 19, 2023

Disclaimer The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.