

## Safety Data Sheet

### 1) Identification of Material and Manufacturer

<b>Product Name</b>	Iodophor BP 20% Concentrate
<b>Product Use(s)</b>	Chemical Precursor
<b>Manufacturer/Seller</b>	IodiTech Inc.
<b>Address</b>	951 N. Topping Ave., Kansas City, MO, 64120 U.S.A.
<b>Emergency Telephone</b>	Chemtrec 800.424.9300
<b>E-mail</b>	info@ioditech.com

### 2) Hazards Identification

<b>Chemical Name</b>	Polyethylene-polypropylene block copolymer and iodine complex
<b>Classification of Substance</b>	Corrosive liquid, acidic
<b>CAS</b>	Polyethylene-polypropylene block copolymer: 9003-11-6 Iodine: 7553-56-2
<b>OSHA PEL</b>	None Established
<b>ACGIH TLV</b>	None Established



### 3) Composition Information

<b>Ingredient</b>	<b>Concentration</b>
Polyethylene-polypropylene block copolymer-iodine complex (as an iodophor)	100% w/w

### 4) First Aid Measures

<b>Inhalation</b>	Move victim to fresh air. Seek medical attention if breathing is distressed.
<b>Skin Contact</b>	Wash exposed area thoroughly with soap and water while removing contaminated clothing and shoes. Seek immediate medical attention.
<b>Eye Contact</b>	Immediately flush eyes with water, remove contacts if present, flush with water for another 15 minutes. Seek immediate medical attention.
<b>Ingestion</b>	Do not induce vomiting. Promptly drink large quantities of water or milk. Immediately contact physician.

### 5) Firefighting Measures

<b>Extinguishing Media</b>	Water, carbon dioxide, or foam
<b>Special Hazards</b>	May produce iodine fumes
<b>Additional Information</b>	Firefighter should wear self-contained breathing apparatus, if possible.

### 6) Accidental Release Measures

<b>In case of spill, leak, or release</b>	Dilute with water. Neutralize acid with soda ash, and neutralize iodine with sodium metabisulfite. After complete neutralization remove to an approved waste disposal facility.
<b>Method of waste disposal</b>	Follow all local, municipal, state, and federal guidelines, if in the United States of America. For all other countries, consult local, regional, or country regulations as applicable to a hazardous product.

- *This material is hazardous.*

## 7) Handling and Storage

<ul style="list-style-type: none"> <li>• Store in cool, dry location, away from chlorinated compounds.</li> </ul>	<ul style="list-style-type: none"> <li>• Protect from heat, light, moisture</li> </ul>	<ul style="list-style-type: none"> <li>• Must use with adequate ventilation</li> </ul>
<ul style="list-style-type: none"> <li>• Chemical resistant gloves must be worn</li> </ul>	<ul style="list-style-type: none"> <li>• Safety glasses or goggles must be worn</li> </ul>	<ul style="list-style-type: none"> <li>• Wash hands thoroughly, immediately before and after use</li> </ul>
<ul style="list-style-type: none"> <li>• Do NOT reuse containers</li> </ul>	<ul style="list-style-type: none"> <li>• Do not use waterless hand cleaners</li> </ul>	<ul style="list-style-type: none"> <li>• Use good personal hygiene</li> </ul>

## 8) Exposure Controls and Personal Protection

Polyethylene-polypropylene block copolymer and iodine complex	<b>OSHA PEL</b>	None Established
Polyethylene-polypropylene block copolymer and iodine complex	<b>ACGIH TLV</b>	None Established

<b>Engineering Controls</b>	Use adequate ventilation from mechanical source to control airborne vapor exposure.
<b>Personal Protection</b>	<ul style="list-style-type: none"> <li>• Wear a NIOSH/MSHA-approved respirator with a HEPA cartridge or equivalent.</li> <li>• Wear chemical resistant gloves based on nitrile, neoprene, or rubber construction.</li> <li>• Wear safety glasses with side shields, or goggles.</li> <li>• Wear body protection to avoid skin contact.</li> </ul>

## 9) Physical and Chemical Properties

<b>Appearance</b>	Dark Brown liquid	<b>Flash Point</b>	Non-Flammable
<b>Odor</b>	Strong Iodine	<b>Est. Explosive Range Limit</b>	LEL - Not Available UEL - Not Available
<b>Odor Threshold</b>	None Established	<b>Flash Point Method Used</b>	Not Applicable
<b>pH</b>	acidic	<b>Partition Coefficient</b>	Not Available
<b>Melting Point</b>	Not Applicable	<b>Decomposition Temperature</b>	Not Available
<b>Boiling Point</b>	Not Applicable	<b>Specific Gravity</b>	1.305 (average)
<b>Vapor Pressure</b>	Not Applicable	<b>Explosive Properties</b>	Not Explosive
<b>Evaporation Rate</b>	Not Applicable	<b>Oxidizing Properties</b>	Not an Oxidizer
<b>Solubility in Water</b>	Complete	<b>Other Information</b>	Contains Iodine

## 10) Stability and Reactivity Data

<b>Chemical Stability</b>	Stable, when stored properly
<b>Conditions to Avoid</b>	High heat, strong oxides, alkalides, reducing agents, and chlorinated compounds.
<b>Incompatibility</b>	High heat, strong oxides, alkalides, reducing agents, and chlorinated compounds.
<b>Hazardous Polymerization</b>	Will not occur
<b>Hazardous Decomposition</b>	May produce toxic iodine fumes when exposed to heat.

## 11) Toxicology Information

Nonylphenoxyethoxyethanol - iodine complex	<b>LD<sub>50</sub> (oral)</b>	Not Established
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- ***This product is corrosive to eyes, skin, tracheal lining, and destructive to mucus membranes.***
- ***Exercise extreme care when handling.***
- ***Germ cell mutagenicity has not been conducted for this material.***
- ***This product does not contain any known carcinogens.***
- ***This product does not cause reproductive toxicity.***

## 12) Ecological Information

<b>Toxicity</b>	Toxic to fish and aquatic species
<b>Persistence/Degradation in Environment</b>	Expected to completely degrade under typical circumstances under U.S. EPA standards.
<b>Bioaccumulation</b>	Does not accumulate under U.S. EPA standards.
<b>Mobility in Soil</b>	Not studied.

## 13) Disposal

- ***Follow all local, municipal, U.S. state, and U.S. federal regulations applicable to a hazardous product if in the United States of America.***
- ***For other countries consult your local, area, or country regulatory authority as applicable to a hazardous product.***
- ***This product is hazardous to fish and other aquatic life.***
- ***Proper disposal is mandatory.***

## 14) Transportation and Shipping

<b>Americas Region</b>	DOT Class 8, Freight Class 85
<b>Proper Shipping Name</b>	Corrosive liquid, acidic, inorganic, N.O.S. 8, 3264, PGIII
<b>U.N. Number</b>	3264
<b>International</b>	Follow U.N. recommendations on The Transport of Dangerous Goods, 17th edition, revised
<b>Ocean</b>	Follow IMO International Maritime Dangerous Goods Code
<b>Air</b>	Follow IATA Dangerous Goods Regulation

## 15) Regulatory Information

<b>CERCLA Sec. 103 RQ#</b>	YES	<b>EHS 302 TPQ</b>	YES
<b>RCRA Sec. 261.33</b>	YES	<b>TSCA Listed?</b>	YES
<b>SARA Sec. 261.33 RQ#</b>	YES	<b>EPA Special Hazard</b>	YES
<b>SARA 312 Name List</b>	YES	<b>CA Prop 65</b>	YES
<b>SARA 313 Name List</b>	YES	<b>REACH Listed?</b>	YES

<b>SARA Section 312 Hazardous Categories</b>	
<b>Immediate (acute) Health Hazard</b>	YES
<b>Delayed (chronic) Health Hazard</b>	YES
<b>Fire Hazard</b>	NO
<b>Reactivity Hazard</b>	NO
<b>Sudden Release of Pressure</b>	NO

## 16) Other Information

***The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.***

**RESOURCES:**

United States Environmental Protection Agency  
 United States Occupational Health and Safety Administration  
 United States Department of Transportation  
 United State Drug Enforcement Administration  
 United Nations “Transport of Dangerous Goods” 17<sup>th</sup> Edition, 2011  
 International Maritime “Dangerous Goods Code”  
 International Air Transportation Association “Dangerous Goods Regulation”

**TERMINOLOGY:**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	<b>RCRA</b>	Resource Conservation and Recovery Act
<b>CA</b>	State of California, U.S.A.	<b>REACH</b>	Registration, Evaluation, Authorization and Restriction of Chemicals
<b>CAS</b>	Chemical Abstract Services	<b>SARA</b>	Superfund And Reauthorization Act
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation, and Liability Act	<b>TLV</b>	Threshold Limit Value
<b>EHS</b>	Environmental Health and Safety	<b>TPQ</b>	Threshold Planning Quantity
<b>HEPA</b>	High Efficiency Particulate Air	<b>TSCA</b>	Toxic Substances Control Act
<b>LEL</b>	Lower Explosive Limit	<b>UEL</b>	Upper Explosive Limit
<b>LD<sub>50</sub></b>	Lethal dose for 50% of population	<b>UN</b>	United Nations
<b>MSHA</b>	Mine Safety Health Administration	<b>IATA</b>	International Air Transport Association
<b>NIOSH</b>	National Institute of Occupational Safety and Health	<b>EPA</b>	Environmental Protection Agency
<b>OSHA</b>	Occupational Safety and Health Administration	<b>DoT</b>	Department of Transportation
<b>PEL</b>	Permissible Exposure Limits	<b>IMO</b>	International Maritime Organization