

Safety Data Sheet

1) Identification of Material and Manufacturer

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

2) Hazards Identification

Chemical Name	Nonyl phenoxy polyoxyethylene ethanol-iodine complex
Classification of Substance	Corrosive liquid, acidic
CAS	35860-86-7
OSHA PEL	None Established
ACGIH TLV	None Established



3) Composition Information

Ingredient	Concentration
Nonylphenoxypolyethoxyethanol - iodine complex	100% w/w

4) First Aid Measures

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

5) Firefighting Measures

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

6) Accidental Release Measures

In case of spill, leak, or release	Dilute with water. Neutralize acid with soda ash, and neutralize iodine with sodium metabisulfite. After complete neutralization remove to an approved waste disposal facility.
Method of waste disposal	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"> • Store in cool, dry location, away from chlorinated compounds. 	<ul style="list-style-type: none"> • Protect from heat, light, moisture 	<ul style="list-style-type: none"> • Must use with adequate ventilation
<ul style="list-style-type: none"> • Chemical resistant gloves must be worn 	<ul style="list-style-type: none"> • Safety glasses or goggles must be worn 	<ul style="list-style-type: none"> • Wash hands thoroughly, immediately before and after use
<ul style="list-style-type: none"> • Do NOT reuse containers 	<ul style="list-style-type: none"> • Do not use waterless hand cleaners 	<ul style="list-style-type: none"> • Use good personal hygiene

8) Exposure Controls and Personal Protection

Nonylphenoxyethoxyethanol - iodine complex	OSHA PEL	None Established
	ACGIH TLV	None Established

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

9) Physical and Chemical Properties

Appearance	Dark Brown liquid	Flash Point	Non-Flammable
Odor	Strong Iodine	Est. Explosive Range Limit	LEL - Not Available UEL - Not Available
Odor Threshold	None Established	Flash Point Method Used	Not Applicable
pH	acidic	Partition Coefficient	Not Available
Melting Point	Not Applicable	Decomposition Temperature	Not Available
Boiling Point	Not Applicable	Specific Gravity	1.327 (average)
Vapor Pressure	Not Applicable	Explosive Properties	Not Explosive
Evaporation Rate	Not Applicable	Oxidizing Properties	Not an Oxidizer
Solubility in Water	Complete	Other Information	Contains Iodine

10) Stability and Reactivity Data

Chemical Stability	Stable, when stored properly
Conditions to Avoid	High heat, strong oxides, alkalides, reducing agents, and chlorinated compounds.
Incompatibility	High heat, strong oxides, alkalides, reducing agents, and chlorinated compounds.
Hazardous Polymerization	Will not occur

Hazardous Decomposition	May produce toxic iodine fumes when exposed to heat.
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11) Toxicology Information

Nonylphenoxypolyethoxyethanol - iodine complex	LD₅₀ (oral)	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

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

Americas Region	DoT Class 8, Freight Class 85
Proper Shipping Name	Corrosive liquid, acidic, inorganic, N.O.S. 8, 3264, PGIII
U.N. Number	3264
International	Follow U.N. recommendations on The Transport of Dangerous Goods, 17th edition, revised

Ocean	Follow IMO International Maritime Dangerous Goods Code
Air	Follow IATA Dangerous Goods Regulation

15) Regulatory Information

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

SARA Section 312 Hazardous Categories	
Immediate (acute) Health Hazard	YES
Delayed (chronic) Health Hazard	YES
Fire Hazard	NO
Reactivity Hazard	NO
Sudden Release of Pressure	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" 17th Edition, 2011
 International Maritime "Dangerous Goods Code"
 International Air Transportation Association "Dangerous Goods Regulation"

TERMINOLOGY:

ACGIH	American Conference of Governmental Industrial Hygienists	RCRA	Resource Conservation and Recovery Act
CA	State of California, U.S.A.	REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
CAS	Chemical Abstract Services	SARA	Superfund And Reauthorization Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	TLV	Threshold Limit Value
EHS	Environmental Health and Safety	TPQ	Threshold Planning Quantity
HEPA	High Efficiency Particulate Air	TSCA	Toxic Substances Control Act
LEL	Lower Explosive Limit	UEL	Upper Explosive Limit
LD₅₀	Lethal dose for 50% of population	UN	United Nations
MSHA	Mine Safety Health Administration	IATA	International Air Transport Association
NIOSH	National Institute of Occupational Safety and Health	EPA	Environmental Protection Agency
OSHA	Occupational Safety and Health Administration	DoT	Department of Transportation
PEL	Permissible Exposure Limits	IMO	International Maritime Organization