

Safety Data Sheet

1) Identification of Material and Manufacturer

Product Name	1.75% Iodine
Product Use(s)	Cleaning Agent
Manufacturer/Seller	Soft Jamb Company
Address	6298 Mt. Pinos Ct., Alta Loma, CA 91701, United States
Emergency Telephone	Chemtrec 800.424.9300
E-mail	steve@softjamb.com

2) Hazards Identification

Chemical Name	Nonylphenoxy polyethanol-iodine complex	Phosphoric Acid
Classification of Substance	Non-Hazardous	Corrosive
CAS	11096-42-7	7664-38-2
OSHA PEL	None Established	1 mg/m ³
ACGIH TLV	None Established	3 mg/m ³

3) Composition Information

Ingredient	Concentration
Phosphoric Acid	8-18% w/w
Iodine Complex	<19% 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. Seek medical attention if irritation persists.

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Eye Contact	Immediately flush eyes with water, remove contacts if present, flush with water for another 10 minutes. Seek medical attention.
Ingestion	Promptly drink large quantities of water, if conscious. DO NOT INDUCE VOMITING. Contact physician or poison control center.

5) Firefighting Measures

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

6) Accidental Release Measures

In case of spill, leak, or release	Small spills (less than 1 gallon) may be flushed, after neutralization with soda ash, to an approved sewer line (with large amounts of water). Larger spills should be absorbed and collected for disposal, or collected with an industrial vacuum truck.
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. Release only into approved waste lines.

- *This material is hazardous.*
- *Dry material may be placed in appropriate containers and disposed of in accordance with applicable governmental agencies for your location.*

7) Handling and Storage

• Store in cool, dry location	• Protect from heat, light, moisture	• Must use with adequate ventilation
• Chemical resistant gloves must be worn	• Safety glasses or goggles must be worn	• Wash hands thoroughly, immediately before and after use
• Do NOT reuse container	• Do not use waterless hand cleaners	• Use good personal hygiene

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8) Exposure Controls and Personal Protection

Phosphoric Acid	ACGIH TLV	1 mg/m ³
	OSHA PEL	3 mg/m ³
Iodine Complex	Exposure limits	None Established

Engineering Controls	Use adequate ventilation from mechanical source to control airborne mist 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	Brown Liquid	Flash Point	Non-Flammable
Odor	Iodine odor	Est. Explosive Range Limit	LEL - Not Available UEL - Not Available
Odor Threshold	Not Applicable	Flash Point Method Used	Not Applicable
pH	< 2	Partition Coefficient	Not Applicable
Melting Point	Not Applicable	Decomposition Temperature	Not Available
Boiling Point	214°F	Viscosity	Not Available
Vapor Pressure	Not Available	Explosive Properties	Not Explosive
Specific Gravity	1.05 - 1.11	Oxidizing Properties	Not an Oxidizer

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Solubility in Water	Complete	Other Information	Contains Iodine
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10) Stability and Reactivity Data

Chemical Stability	Stable in normal conditions.
Conditions to Avoid	Chlorinated compounds, high heat, oxidizers, metals, sulfides.
Incompatibility	Chlorinated compounds, high heat, oxidizers, metals, sulfides.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition	May decompose to toxic iodine and phosphorus oxides with heating.

11) Toxicology Information

Iodine Complex	LD ₅₀	None Established
Phosphoric Acid	LC ₅₀ (inhalation, rabbit)	1689 mg/L (1 hour)
	LD ₅₀ (oral, rat)	1530 mg/kg
	LD ₅₀ (dermal, rabbit)	2740 mg/kg

- *Skin irritant under normal exposure.*
- *After exposure skin may become irritated and demonstrate redness, pain, dryness and itching.*
- *May cause eye irritation as evidenced by pain, redness and tearing of eyes.*
- *May be irritating to respiratory tract under normal conditions.*
- *Avoid breathing vapor.*
- *Increased nasal mucous membrane production and increased tears in eyes may occur upon breathing vapor.*
- *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	Phosphoric Acid - LC ₅₀ (Fish) - 138 ppm
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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

- *Under applicable U.S. Environmental Protection Agency regulations this material is considered to be environmentally hazardous in regards to waste disposal.*
- *Follow all local, municipal, U.S. state, and U.S.federal regulations if in the United States of America.*
- *For other countries consult your local, area, or country regulatory authority as applicable to a hazardous product.*

14) Transportation and Shipping

Americas Region	Class 8, PG III, 4/1 gal cases: ORM-D
Proper Shipping Name	Phosphoric Acid, liquid
U.N. Number	UN 1805
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, 18000 lbs	EHS 302 TPQ	NO
RCRA Sec. 261.33	YES, D002	TSCA Listed?	YES
SARA Sec. 261.33 RQ#	YES, 5000 lbs	EPA Special Hazard	NO
SARA 312 Name List	YES	CA Prop 65	NO
SARA 313 Name List	YES	REACH Listed?	NO

SARA Section 312 Hazardous Categories	
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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

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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

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