

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No 1218-0012

IDENTITY (As Used on Label and Lot)

Operand Iodine Prep Solution

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I Povidone - Iodine Solution U.S.P.

Manufacturer's Name

REDI PRODUCTS

Address (Number, Street, City, State and ZIP Code)

P.O. Box 126

Emergency Telephone Number

CHEMTRAC 1-800-24-9309

Telephone Number for Information

Redi Products 1-304-486-5656

Date Prepared

November 7, 1986

Signature of Preparer (optional)

Quality Assurance Manager

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Generic Chemical Identity, Common Name(s)) OSHA PEL ACGIH TLV Other Limits Recommended % Present

This product contains disodium phosphate and may contain phosphoric acid used as
the pH buffering system in a combined concentration of approximately one (1)
percent.

This product contains no other hazardous ingredients.

Section III - Physical/Chemical Characteristics

Balling Point	207°F	Specific Gravity (H ₂ O = 1)	1.035
Vapor Pressure (mm Hg.)	Not Known	Melting Point	N/A
Vapor Density (Air = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	< 1

Solubility in Water Soluble. Water will be tinted brown because of available iodine.

Appearance and Odor A dark brown fluid solution. Odor is faint and characteristic.

Section IV - Fire and Explosion Hazard Data

Flinn-Pearl Method Used	Not known	Flammable Limit Nonflammable	LEL N/A	UEL N/A
Extinguishing Media No recommendations or restrictions for product.				
Special Fire Fighting Procedures Firefighters should be equipped with self-contained breathing apparatus.				

Unusual Fire and Explosion Hazards
Harsh Iodine fumes are emitted when product is heated to greater than 176°F.

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	N/A
Storage	X		

Incompatibility (Materials to Avoid): The elemental iodine is corrosive to some metals (e.g. iron) but is not corrosive to stainless steel as found in healthcare facilities.

Hazardous Decomposition or Byproducts	N/A		
Hazardous Polymerization	May Cause	Conditions to Avoid	N/A
Will Not Cause	X		

Section VI - Health Hazard Data

ROUTES OF ENTRY:	Inhalation?	Skin?	Ingestion?
	N/A	X	By accidental or intentional misuse

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute Oral Toxicity: Rats LD50@ 24 hours: 750 mg available iodine/kg. Extrapolation:
A 150# adult would have to drink one gallon of product to reach lethal dose 50.
Overexposure may occur if excessive amounts are absorbed through broken skin, burns, or deep wounds.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

N/A N/A N/A

SIGNS AND SYMPTOMS OF EXPOSURE

Skin: If irritation, redness, pain or swelling persists or increases, discontinue use and consult physician. Operand Iodine Prep should not be used on patients or by personnel with skin sensitivity to iodine.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Overexposure symptoms reflect iodine overexposure. Severe hypernatremia and acidosis have been reported as well as increased serum iodine levels.

EMERGENCY AND FIRST AID PROCEDURES
Ingestion: If swallowed, do not induce vomiting. Drink large quantities of water or milk and call a physician immediately.

Eyes: Flush with water for 15 minutes and seek medical attention if irritation occurs or persists.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled
Large Spills: (55 gallon drums) Spills should be contained and taken up with absorbent material. Do not discharge into waterways or sewer systems.

Small Spills: Take up with absorbent material or flush with water to sewer system.

Waste Disposal Method

Spilled material and empty containers must be disposed of in accordance with institutional, local, state, and federal regulations.

Precautions To Be Taken In Handling And Storing

Avoid Storing at Excessive Heat (Greater than 104°F).

Other Precautions

Contact manufacturer for disposition of expired product.

Section VIII -- Control Measures

Respiratory Protection (Specify how): For Hospital and Professional use: Not required.
For Industrial Use: If product is misted during manufacture, employees should wear dust/mist respirators unless adequate ventilation is provided.

Ventilation	Local Exhaust	Special
	Acceptable	N/A

Protective Gloves	N/A	Eye Protection Avoid contact with eyes.
		Protective equipment is not necessary.

Other Protective Clothing or Equipment	N/A

Work/Hygiene Practices Indications: Povidone-Iodine Topical Solution is a topical antimicrobial