SAFETY DATA SHEETS

This SDS packet was issued with item:

078363379

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

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SAFETY DATA SHEET

Issue Date 14-Dec-2007 Revision Date 13-Apr-2015 Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product Name Betadine® (povidone-iodine, 7.5%) Surgical Scrub

Synonyms PVP-I

Recommended Use This product is a topical microbicide

Uses advised against Not for oral use.

Distributor Address Purdue Products L.P.

One Stamford Forum 201 Tresser Boulevard

Stamford, Connecticut 06901-3431

(888) 726-7535

24 Hour Emergency Phone Number Chemtrec (800) 424-9300

For all international transportation emergencies, call Chemtrec collect at (703) 527-3887.

2. HAZARDS IDENTIFICATION

This product is not considered hazardous by the 2012 OSHA Hazard Communications standard (29 CFR 1910.1200).

Serious eye damage/eye irritation Category 2B

Emergency Overview

Signal Word Warning

Hazard Statements

Causes serious eye irritation

AppearanceReddish-brownPhysical stateLiquidOdorCharacteristic odor

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Prolonged exposure to wet solution may cause irritation or, rarely, severe skin reactions. In pre-operative prepping, avoid "pooling" beneath the patient.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Hazards Not Otherwise Classified (HNOC)

Not Applicable.

Other Information

Causes mild skin irritation

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight %
Povidone Iodine	25655-41-8	5-10
Sodium hydroxide	1310-73-2	<1

4. FIRST AID MEASURES

First aid measures

Eye contact In case of eye contact, immediately flush eyes with fresh water for at least 15 minutes while

holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation

persists.

Skin contact In case of contact, remove contaminated clothing. Immediately flush skin with copious

amounts of water for at least 15 minutes. Obtain medical attention if skin reaction occurs.

In case of inhalation, remove to fresh air. If not breathing, provide artificial respiration. If

breathing is difficult, administer oxygen. Seek medical attention immediately.

Betadine® (povidone-iodine, 7.5%) Surgical Scrub

Revision Date 13-Apr-2015

In case of accidential ingestion, wash out mouth with copious amounts of water. Seek

medical attention immediately. Do not induce vomiting unless directed by medical

personnel. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific hazards arising from the chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protection recommended in Section 8.

Other Information Not Applicable.

Environmental precautions

Environmental precautions See section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handlingAvoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials Strong alkalis or reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	IDLH: 10 mg/m ³
1310-73-2			Ceiling: 2 mg/m ³

Engineering Controls Handle material under adequate ventilation (e.g., chemical fume hood, vented balance

enclosure [VBE]). Keep container tightly closed. Minimize the amount of material handled

at any one time.

Individual Protection Measures (Personal Protective Equipment)

Eye/face protection None required for consumer use. In laboratory, medical or industrial settings, safety glasses

with side shields are recommended. The use of goggles or full face protection may be required depending on the industrial exposure setting or possibility of splashing. Contact a

health and safety professional for specific information.

Skin and body protection None required for consumer use. In laboratory, medical or industrial settings, gloves and

lab coats are recommended. Contact a health and safety professional for specific

information.

Respiratory protection Respirators may be required for certain laboratory and manufacturing tasks if engineering

controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where the exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. In the United States of America, if respirators are used they are to be NIOSH approved and part of a respiratory protection program instituted to assure

compliance with OSHA Standard 29 CFR 1910.134. Contact a health and safety

professional or manufacturer for specific information.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Liquid

Appearance Reddish-brown
Odor Characteristic odor
Color Reddish-brown

Odor threshold No information available.

Revision Date 13-Apr-2015

CC (closed cup)

Property Values Remarks • Method

PH No information available.

Melting point / melting range
Boiling point / boiling range
Flash point

No information available.
No information available.
93.3 °C / > 200 °F

Evaporation rateFlammability (solid, gas)
No information available.
No information available.

Flammability limits in air Upper flammability limits Lower flammability limits

Vapor pressureNo information available.Vapor densityNo information available.Specific gravityNo information available.Water solubilityNo information available.Solubility in other solventsNo information available.Partition coefficientNo information available.

(n-octanol/water)

Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available.

Other Information

Softening point
Molecular weight
VOC content; (%)
Density
No information available.

10. STABILITY AND REACTIVITY

Reactivity A mixture of equal parts of a 10% povidone iodine solution and hydrogen peroxide 3%

exploded about 100 minutes after mixing.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions No information available.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid None known based on available information.

Incompatible materials Strong alkalis or reducing agents.

Hazardous decomposition products Will not decompose under conditions of usual handling.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product InformationBetadine® Solution has not undergone toxicity testing in animals. The information

presented below is for povidone iodine.

Inhalation Povidone iodine: Overexposure from breathing aerosols and/or iodine vapors may cause

irritation to the respiratory tract, bronchitis and absorption through the lungs.

High concentrations of iodine in the blood from inhalation or ingestion may cause thyroid disorder (hyperthyroidism), renal disturbances, acidosis, and electrolyte disturbances such

as increased iodine levels and severe hyponatremia.

Conditions that may be aggravated by exposure to povidone iodine: asthma, chronic

bronchitis, and thyroid disorders.

Eye contact Povidone iodine: Povidone iodine has been reported to be a mild skin and eye irritant in

animals.

Skin contact Povidone iodine: Povidone iodine has been reported to be a mild skin and eye irritant in

animals.

Ingestion May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide	-	1350 mg/kg (Rabbit)	-
Povidone Iodine	8 g/kg (Rat)	-	-
Polyvinylpyrrolidone	100 g/kg (Rat)	-	-
lodine	14 g/kg (Rat)	-	-
Pareth 25-9	2 g/kg (Rat) 1600 mg/kg (Rat)	2500 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Skin corrosion/irritation Betadine® Solution is generally non-irritating to skin. However, prolonged exposure to wet

solution may cause irritation or, rarely, severe skin reactions. Povidone iodine may cause

skin sensitization.

Sensitization Povidone iodine: Negative in a human insult patch test as a primary skin irritant. A few

cases of dermal sensitivity exist. Chemical-like burn can occur if pooled solution is retained against a patient's skin for several hours while under pressure such as during prolonged

hospital procedures (PVP-1 solution, 1% available iodine).

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

Germ cell mutagenicity Povidone iodine:

Bacterial mutagenicity: negative Bone marrow (hamster): negative Dominant lethal assay (mouse): negative

Mouse lymphoma: negative Mouse micronucleus: negative

Carcinogenicity Povidone iodone: No information available.

Reproductive toxicity Caused toxicity in maternal and fetal rabbits without congenital defects. Large scale

case-control studies did not increase congenital abnormalities during pregnancy and

vaginal treatment.

STOT-single exposure No information available.

STOT-repeated exposureNo information available.

Chronic Toxicity Long term testing of Povidone in dogs (12 months) and 2 year in dogs and rats did not

cause any effects of note.

Subchronic toxicity Povidone iodine: In a 12-week dietary study in rats, ingestion of povidone iodine at an

average povidone iodine dosage of approximately 75 to 750 mg/kg/day produced a dose-dependent increase in serum protein-bound iodine and nonspecific, reversible microscopic changes in the thyroid. No other gross or microscopic povidone iodine-induced changes were observed. At equivalent iodine dosages, dietary potassium iodide produced

similar thyroid changes of equal or greater severity.

Aspiration hazard No information available.

Acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document.

Oral LD50 8036 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium hydroxide		LC50 96 h = 45.4 mg/L (Oncorhynchus mykiss - static)		

Persistence and degradability No information available.

Bioaccumulation No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status	
Sodium hydroxide	Toxic	
1310-73-2	Corrosive	

14. TRANSPORT INFORMATION

DOT Not regulated.

IATA Not regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA Not determined.
DSL Not determined.

Legend:

TSCA - United States Toxic Substances Control Act Section 8 (b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2	1000 lb			Х

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-Know Regulations

US EPA Label Information

EPA Pesticide Registration Number Not Applicable.

16. OTHER INFORMATION

NFPA Health Hazards 1 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health Hazards 1 Flammability 0 Physical Hazards 0 Personal protection X

General Information No additional information.

Prepared By This SDS was prepared by the Occupational and Environmental Assessment Section of

Purdue Pharma L.P.

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Participa Parts

Revision Date 13-Apr-2015

Revision Note SDS reformated for OSHA (GHS) 2012.

Disclaimer

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End of Safety Data Sheet