

The Purdue Frederick Company

Material Safety Data Sheet

Betadine® Solution
(10% povidone iodine)

Version: 16-Mar-04

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification: Betadine® Solution (10% povidone iodine)

Chemical Name

1-ethyeny -2-pyrrolidinone homopolymer compound with iodine

Synonyms

PVP-I

Molecular Formula: (C₄H₆I₂NO)_n · I₂

Molecular Weight: not available

CAS Number: 25655-41-8

Product Use: topical microbiocide

Responsible Party

Manufacturer

The Purdue Frederick Company
One Stamford Forum
201 Tresser Boulevard
Stamford, CT 06901-3431
Telephone: (888) 726-7535

EMERGENCY CONTACT

Chemtrec (800) 424-9300. For all international transportation
or emergency call Chemtrec collect at (702) 577-3887

2. HAZARDOUS COMPONENTS

Material

CAS Number

%

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Emergency Overview

Normal handling should not constitute a hazard. The following information is provided for those circumstances where uncontrolled exposure may occur.

Reddish-brown clear liquid

Remove contaminated clothing. Flush skin with plenty of water and wash thoroughly with soap and water. If irritation (redness, itching, swelling) develops, seek medical attention. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15

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area with detergent and water. Dispose of all solid waste and wash and rinse water in accordance with federal, state, and local regulations.

7 Handling and Storage

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TLV (AC 3IH): 10 mg/m³ (mist)

Exposure Guideline Comments
none

9. Physical and Chemical Properties

Physical Data

Odor: slight characteristic
Form: liquid
Color: reddish brown
Vapor Pressure: no information available
Melting Point: no information available
Solubility: soluble in water and in alcohol

18 **Stability and Reactivity**

Chemical Stability

Low stability hazard expected at normal operating temperatures.

Reactivity

A mixture of equal parts of a 10% povidone iodine solution and hydrogen peroxide 5% exploded about 100 minutes after mixing.

Incompatibility with Other Materials

Strong oxidizers or reducing agents

Decomposition

Will not decompose under conditions of usual handling.

Polymerization

Material will not polymerize.

11. Toxicological Information

Animal Data

Betadine® Solution has not undergone toxicity testing in animals. The information presented below is for informational purposes and is not intended to be used for any other purpose.

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Parath 25-9

No information available.

Acute

Povidone iodine

Oral LD₅₀: rat: >8 g/kg

Oral LD₅₀: mouse: 8.1 g/kg

Intravenous LD₅₀: rat: 640 mg/kg

Intravenous LD₅₀: mouse: 480 mg/kg

Intravenous LD₅₀: rabbit 11.0 mg/kg

Glycerin

Oral LD₅₀: rat: 12.6 g/kg

Oral LD₅₀: mouse: 4.1 g/kg

Intravenous LD₅₀: rat: 5.6 mg/kg

Intravenous LD₅₀: mouse: 4.2 mg/kg

Dermal LD₅₀: rabbit: >10 g/kg

Parath 25-9

No information available. Parath is ethoxydimethyl phosphorothioic acid and its

AE

E

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Glycerin

No information available.

Parath 25.9

No information available.

Carcinogenicity

Povidone iodine

No information available.

Glycerin

No information available.

Parath 25.9

No information available.

Mutagenicity/Genotoxicity:

Povidone iodine

Bacterial mutagenicity: negative

Bone marrow (hamster): negative

Dominant lethal assay (mouse): negative

Mouse lymphoma: negative

Mouse micronucleus: negative

Glycerin

Bacterial mutagenicity: negative

Parath 25.9

No information available.

Developmental Toxicity Information

Povidone iodine

No information available.

Glycerin

No information available.

Parath 25.9

No information available.

12. Ecological Information

Ecotoxicological Information

No information available

Chemical Fate Information

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No information available

13. Disposal Considerations

Disposal

Material must be in

[REDACTED]