

SECTION 1: PRODUCT IDENTIFICATION

Product: 10% Povidone Iodine (PVP-I) Solution

Product Label Name: Povidone Iodine Solution

CAS: (PVP-I) 25655-41-8

Relevant Product Use: Topical Antiseptic

Company Name and Address: Dukal Corporation
2 Fleetwood Court
Ronkonkoma, NY 11779

Emergency Telephone Number: 631-656-3800

Contact Outside USA: +1-800-243-0741
QA-RA-NY@dukal.com

Revision Date: 14-May-2018

SECTION 2: HAZARDOUS IDENTIFICATION

Hazard Class/Category: Eye Irritation – 2A
STOT SE – 3
Skin Irritation – 2

Hazard Symbol:



Signal Word: Warning

Hazard Statements: Causes serious eye irritation. (H319)
May cause respiratory irritation. (H335)
Causes skin irritation. (H315)

Precautionary statements: Avoid breathing vapors. (P261)

General: Keep out of reach of children. (P102)

Eyes: IF IN EYES: Rinse cautiously with water for several minutes.
If eye irritation persists: Get medical advice/attention.
(P305+P338) (P337+P313)

Respiratory: IF INHALED: Remove victim to fresh air and keep at rest in
a position comfortable for breathing. Call a POISON



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CENTER or doctor/physician if you feel unwell. (P304+P340)
(P312)

Skin:

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/ attention.
(P303+P352) (P332 + P313)

SECTION 3: INFORMATION ON INGREDIENTS

Component Name	CAS #	Concentration	EC #
Povidone Iodine	25655-41-8	10%	(ECHA Pre-Registration: 918-309-2)

SECTION 4: FIRST-AID MEASURES

Emergency first aid procedures by route of exposure:

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: 93.9°C

Extinguishing Media: Use methods appropriate for the surrounding fire.

Products of Combustion: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Fire Fighting Equipment/Instructions: Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Provide ventilation. For large spills wear gloves, safety glasses, NIOSH approved respiratory protection if ventilation is not adequate.

Environmental Precautions: Prevent discharge to open waters.

Methods for Clean-Up: Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions.

SECTION 7: HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Keep the container tightly closed and in a cool, well ventilated place.

SECTION 8: EXPOSURE CONTROLS

Povidone Iodine (25655-41-8)

Engineering Controls: Normal room ventilation is usually adequate under normal use.

Personal Protective Equipment (PPE):

Eye/Face Protection: None needed under normal use. If exposed to unusual amount and splashing: Wear goggles, described by OSHA regulations in 29CFR 1910.133 or European Standard EN166.

Skin Protection: None needed under normal use -- Wear overalls or apron if splashing is possible.

Respiratory Protection: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

General Hygiene Considerations: Wear appropriate protective clothing to prevent skin exposure.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Appearance: Yellowish-brown amorphous hygroscopic powder

Odor: Slight odor

PH: Not Available.

Vapor Pressure: 0.132mmHg at 25°C

Flammability Properties (see section 5)

Solubility (in water): Soluble

Specific Gravity @ 25°C: Not Available

Evaporation Rate: Not Available

Auto-ignition temperature: Not Available

Melting Point: 300°C

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable at normal ambient temperatures near 70°C (21°C)

Condition to Avoid: Not Available

Incompatible Materials: Ether, chloroform, acetone, ethylene oxide and carbon tetrachloride

Hazardous Decomposition: Not Available

Hazardous Reactions: Not Available

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

A: General Product information

Povidone Iodine contains Iodine in a Povidone Carrier.

B: Acute Toxicity

Low order of acute toxicity is possible: The concentrations used clinically (0.1 to 20%) are toxic for granulocytes and monocytes. Povidone-iodine was cytotoxic to SH-SY5Y (neuronal) and RSC96 (Schwann) cells. Povidone-iodine preparation was ototoxic in guinea pigs.

Rat LD50 oral: >2000 mg/kg

Rat LD50 dermal: Estimated based on R21 classification: 400 < LD50 < 2000 mg/kg

Rat LC50 inhalation: Estimated based on R20 classification: 2 < LC50 < 10 mg/L/4h

CHRONIC EFFECTS: Component

10% Povidone Iodine (25655-41-8) -- This product is not expected to cause long term adverse effects

SECTION 12: ECOLOGICAL INFORMATION



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ENVIRONMENTAL MOBILITY

This product is water soluble and is expected to remain primarily in water.

ENVIRONMENTAL DEGRADABILITY

This product Oxides of nitrogen, irritating and toxic fumes and gases, iodine.
This substance is expected to be removed in a waste water treatment facility.

ECOTOXICITY AND BIOACCUMULATION

Low acute toxicity to aquatic organisms is expected.

SECTION 13: DISPOSAL CONSIDERATIONS

The following advice only applies to the product as supplied:

Combination with other material may well indicate another route or disposal. If in doubt, contact the local Authorities. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should in any case be taken to ensure compliance with national and local regulations. This product is NOT suitable for disposal by either landfill or via municipal powers, drains, natural streams or rivers. This product should be disposed of in accordance with all applicable local and national regulations and to dispose of containers with care.

This material, as supplied, is not hazardous waste. This material could become a hazardous waste if it is mixed with or otherwise comes in contact with hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult appropriate national, regional, or local regulations for additional requirements.

Dispose of in accordance with local regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT Material Not Regulated or Classified Hazardous

UN-No. Material Not Regulated or Classified Hazardous

IATA Material Not Regulated or Classified Hazardous

IMDG/IMO Material Not Regulated or Classified Hazardous

SECTION 15: REGULATORY INFORMATION

ECHA/REACH

Povidone-iodine substance is in ECHA pre-registration status.

EC List No. 918-309-2: Envisage registration (consideration) status deadline is 31-May-2018.

WHMIS / CANADA

Not Controlled.



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SECTION 16: OTHER INFORMATION

Issue Date: 26-Mar-2014

Revision Date: 14-May-2018

Hazard Class Calculation: Classes calculated using:

- Globally Harmonized System of Classification and Labelling of Chemicals, Seventh Revised Edition. UN, 2017.
- Assessment Report: Iodine (including PVP-iodine), Product types 1, 3, 4, 22. Sweden, 13 December 2013.

After ECHA/REACH pre-registration deadline, status of PVP-iodine may change, requiring revision of this SDS and product hazard classifications.

Disclaimer:

The information provided in this SDS is correct and is to the best of our knowledge, at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.