

<b>Trade name:</b>	<b>Ovadine</b>
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**SECTION 1: Identification**

**Product identifier:** Ovadine  
**Synonyms:** None available  
**Product Code Number:** CAS# 25655-41-8  
**Recommended use:** Ovadine (povidone iodine) is used as a fish egg disinfectant.  
**Recommended restrictions:** None known

**Manufacturer/Importer/Supplier/Distributor information:**  
**Company Name:** Syndel Laboratories, Ltd.  
**Company Address:** 2595 McCullough Road  
Nanaimo, BC, Canada V9S 4M9  
**Company Contact:** For information regarding this product and its uses, please visit the Syndel Laboratories website [www.syndel.com](http://www.syndel.com) or call 1-800-663-2282.  
**Emergency phone number:** Canutec: 1-613-996-6666

**SECTION 2: Hazard(s) identification****Classification of the chemical in accordance with paragraph (d) of §1910.1200:*****Physical hazards***

No physical hazards for this product.

***Health hazards***

Serious eye damage/irritation, Category 2A.

***Environmental hazards***

No environmental hazards for this product.

**GHS Signal word:** WARNING**GHS Hazard statement(s):** Causes serious eye irritation**GHS Hazard symbol(s):**

**GHS Precautionary statement(s):**

**Prevention:**

Wash skin thoroughly after handling.  
Wear eye protection/ face protection.

**Response:**

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.

**Storage:**

No storage precautionary statements required.

**Disposal:**

No disposal precautionary statements required.

**Hazard(s) not otherwise**

**Classified (HNOC):** None known

**Percentage of ingredient(s) of unknown acute toxicity:**

11% of the mixture consists of ingredients of unknown acute toxicity (oral/dermal/inhalation).

**SECTION 3: Composition/information on ingredients**

**Mixture:**

<b>Chemical name</b>	<b>CAS#</b>	<b>Concentration (weight %)</b>
PVP-Iodine	25655-41-8	10.7%

Note: The balance of the ingredients are not classified as hazardous, or are below the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

**SECTION 4: First-aid measures**

**Description of necessary measures:**

**Inhalation:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Skin contact:** In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Ingestion:** If swallowed, wash mouth out with water provided the person is conscious. Follow with plenty of water. Do not induce vomiting. NEVER GIVE LIQUIDS TO AN UNCONCIOUS PERSON. Call a physician.

**Most important symptoms/effects, acute and delayed:** Risk of damage to eyes. May cause hyperthyroidism.

**Indication of immediate medical attention and special treatment needed:** There is no specific antidote and treatment should be directed at the control of symptoms and the clinical condition.

#### **SECTION 5: Fire-fighting measures**

**Suitable extinguishing media:** Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** Emits toxic fumes under fire conditions. Combustion products – None known.

**Special protective equipment and precautions for fire-fighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.

#### **SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of aerosol. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

**Methods and material for containment and cleaning up:** Soak up with appropriate absorbent material, place in a bag, and hold for disposal. Ventilate area and wash spill site after picking up material.

## SECTION 7: Handling and storage

**Precautions for safe handling:** Avoid inhalation, contact with eyes, skin, and clothing. Avoid repeated or prolonged exposure. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

**Conditions for safe storage, including any incompatibles:** Keep container tightly closed. Dispose of in accordance to local, state, federal, and international guidelines.

## SECTION 8: Exposure controls/personal protection

**Control Parameters:**

**Occupational exposure limits:**

<b>US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits</b>		
<b>Substance</b>	<b>PEL-TWA (8 hour)</b>	<b>PEL-STEL (15 min)</b>
PVP-Iodine	No data available	No data available

<b>US ACGIH Threshold Limit Values</b>		
<b>Substance</b>	<b>TLV-TWA (8 hour)</b>	<b>TLV-STEL (15 min)</b>
PVP-Iodine	No data available	No data available

<b>NIOSH Exposure Limits</b>		
<b>Substance</b>	<b>TWA</b>	<b>STEL</b>
PVP-Iodine	No data available	No data available

**Appropriate engineering controls:** Mechanical exhaust required. Use sufficient natural or mechanical ventilation to keep dust level below the PEL where available.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Use chemical safety goggles. Eye protection should be compliant with OSHA regulations.

**Skin and hand protection:** Wearing resistant gloves impervious to the specific material handled is advised to prevent skin contact. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection:** Respiratory protection is not required. In cases where nuisance levels of aerosol is present, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Other:** Wear protective boots, and apron or lab coat. Safety shower and eye bath.

**Thermal hazards:** No data available.

## SECTION 9: Physical and chemical properties

### Appearance

<b>Physical state:</b>	Liquid
<b>Color:</b>	Brown
<b>Odor:</b>	Faint odor, characteristic
<b>Odor threshold:</b>	No data available
<b>pH:</b>	6.0 to 7.0
<b>Melting point/freezing point:</b>	No data available
<b>Initial boiling point and boiling range:</b>	130°C
<b>Flash point:</b>	Non-flammable
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%):</b>	Not applicable
<b>Flammability limit – upper (%):</b>	Not applicable
<b>Explosive limit – lower (%):</b>	Not applicable
<b>Explosive limit – upper (%):</b>	Not applicable
<b>Vapor pressure:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Relative density (Specific gravity):</b>	approx. 1.03
<b>Solubility (ies):</b>	No data available
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available

### Other information:

**Water content** ≤ 88%

## SECTION 10: Stability and reactivity

<b>Reactivity:</b>	Not chemically reactive.
<b>Chemical stability:</b>	Stable under normal ambient and anticipated conditions of use.
<b>Possibility of hazardous reactions:</b>	Hazardous reactions not anticipated.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition Products:</b>	No data available.

## SECTION 11: Toxicological information

### Information on likely routes of exposure:

<b>Inhalation:</b>	Not an expected route of exposure.
<b>Ingestion:</b>	Not an expected route of exposure.
<b>Skin:</b>	Skin contact is an expected route of exposure.
<b>Eyes:</b>	Eye contact is an expected route of exposure.

### Symptoms related to the physical, chemical, and toxicological characteristics:

Risk of damage to eyes.

### Delayed and immediate effects and chronic effects from short or long-term exposure:

May cause hyperthyroidism.

### Numerical measures of toxicity:

#### Ingredient Information:

Substance	Test Type (species)	Value
PVP-Iodine	LD <sub>50</sub> Oral (Rat)	5-600 mg/kg (approx.)
	LD <sub>50</sub> Dermal (Rabbit)	No data available
	LC <sub>50</sub> Inhalation (Rat)	No data available

#### Product Acute Toxicity Estimates:

Acute Oral Toxicity – no data available

Acute Dermal Toxicity - no data available

Acute Inhalation Toxicity - no data available

#### Skin corrosion/irritation:

Skin Irritation:  
Rabbit slightly irritating (BASF test)

#### Serious eye damage/eye irritation:

Eye irritation:  
Rabbit severely irritating (OECD Guideline 405)

#### Respiratory sensitization:

No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification).

#### Skin sensitization:

No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification).

#### Germ cell mutagenicity:

No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

**Carcinogenicity:** No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

**Reproductive toxicity:** No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

**Specific target organ toxicity- Single exposure:** No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification).

**Specific target organ toxicity- Repeat exposure:** No information available on the mixture, however none of the components have been classified for STOT RE (or are below the concentration threshold for classification).

**Aspiration hazard:** No information available on the mixture, however none of the components have been classified for aspiration hazard (or are below the concentration threshold for classification).

**Further information:** No data available.

**SECTION 12: Ecological information**

**Ecotoxicity:**

**Product data:** No data available

**Ingredient Information:**

Substance	Test Type	Species	Value
PVP-Iodine	LC <sub>50</sub>	Fish – Leuciscus idus	4.6 – 10 mg/l (96h)
	LC <sub>50</sub>	Aquatic Invertebrates	No data available
	EC/LC <sub>50</sub>	Bacteria – Pseudomonas putida	380 mg/l (17h)

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other adverse effects:** None known.

### **SECTION 13: Disposal considerations**

**Disposal instructions:**

Appropriate method of disposal of substance or preparation.

Contain the spill. Do not allow it to flow into water supplies. Absorb any leaked or spilled material. Observe all federal, state, and local regulations when disposing.

### **SECTION 14: Transport information**

**US Department of Transportation Classification (49CFR)**

Not regulated under DOT.

**IMDG**

Not regulated under IMDG.

**IATA (Country variations may apply)**

Not regulated under IATA.

**Environmental hazards**

Marine pollutant: No.

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**

No further relevant information available.

**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.**

None.

### **SECTION 15: Regulatory Information**

**USA:**

**United States Federal Regulations:** This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

**Toxic Substances Control Act (TSCA) –** All substances in this product are listed, as required, or are exempt from the TSCA inventory.

**SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:**

Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**CERCLA Hazardous Substance List, 40 CFR 302.4:** This product does not contain chemicals listed on CERCLA.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** None.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** None.

**SARA Title III**

**Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):** None.

**Section 311/312 (40 CFR 370):**

**Acute Health Hazard:** Yes

**Chronic Health Hazard:** Yes

**Fire Hazard:** No

**Pressure Hazard:** No

**Reactivity Hazard:** No

**Section 313 Toxic Release Inventory (40 CFR 372):** None

**STATE REGULATIONS:**

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986):** No components are listed on Prop 65.

**Massachusetts Right to Know:** None of the components are listed on the Massachusetts Right to Know List.

**New Jersey Right to Know:** Poly(vinylpyrrolidone)-Iodine complex is listed on the New Jersey Right to Know list.

**Pennsylvania Right to Know:** Poly(vinylpyrrolidone)-Iodine complex is listed on the Pennsylvania Right to Know List.

**Canada WHMIS Hazard Class:** D2B –Toxic material.

**SECTION 16: Other information**

Revision Date: September 17, 2015

To the best of our knowledge, the information contained herein is accurate. However Syndel Laboratories, Ltd. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.