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MATERIAL SAFETY DATA SHEET

POVIDONE IODINE 99%

MSDS CAS: 25655-41-8

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: POVIDONE IODINE

CAS#: 25655-41-8

Synonym: Polyvinylpyrrolidone Iodine; Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine complex; PVP-Iodine; Betadine

Chemical Name: Povidone Iodine Chemical Formula: (C6H9NO)n.xI

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: OXFORD LAB FINE CHEM LLP

Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,

Navghar, Vasai (East). Palghar - 401 210.

Mumbai, Maharashtra, INDIA.

Tel: 91-250-2390989

Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Povidone Iodine	25655-41-8	100

<u>Toxicological Data on Ingredients:</u> Povidone-Iodine: ORAL (LD50): Acute: 8000 mg/kg [Rat]. 8100 mg/kg [Mouse].

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Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

<u>Potential Chronic Health Effects:</u> CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

<u>Inhalation:</u> If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

<u>Ingestion:</u> Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

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Section 5: Fire and Explosion Data (Continued)

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards:

A mixture of povidone solution and hydroxide peroxide 3% will explode.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

<u>Precautions:</u> Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, reducing agents.

Storage: Moisture Sensitive. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

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Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Exposure Limits for Nuisance Dust: TWA: 10 (mg/m3) Inhalation Total. TWA: 5 (mg/m3) Inhalation Respirable. Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance

Odor **Taste**

Molecular Weight

Color

pH (1% soln/water)

Boiling Point

Melting Point

Critical Temperature

Specific Gravity

Vapor Pressure

Vapor Density

Volatility

Odor Threshold

Water/Oil Dist. Coeff. **Ionicity (in Water)**

Dispersion Properties

Solubility

: Solid. (Powdered solid.)

: Slight characteristic odour

: Not available.

: Not available

: Yellowish - reddish.

: Not applicable.

: Not available

: 300 °C.

: Not available.

: Not available.

: Not applicable.

: Not available.

: See solubility in water.

: Water: Soluble in Water

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Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, moisture, incompatible materials.

Incompatibility with various substances: Reactive with oxidizing agents, reducing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Absorbs moisture from the air.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 8000 mg/kg [Rat].

Chronic Effects on Humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

<u>Other Toxic Effects on Humans:</u> Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects based on animal data. May affect genetic material

<u>Special Remarks on other Toxic Effects on Humans:</u> Acute Potential Health Effects: Skin: May cause mild skin irritation. It may be absorbed through skin. Topical application of Povidone-Iodine may elevate elevate blood serum concentrations of iodine and affect thyroid function, particularly when used in irrigating solutions. Eyes: May cause eye irritation. Inhalation: It may be very irritating to the respiratory tract and mucous membranes. Ingestion: Low toxicity. Ingestion of excessive amounts may result in symptoms of general nausea including vomiting, and abdominal cramps.

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Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and **COD**: Not available.

<u>Products of Biodegradation:</u> Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

<u>Toxicity of the Products of Biodegradation:</u> The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)

General information: Not regulated.

Sea transport (IMDG) [English only]

General information: Not regulated.

Air transport (ICAO-IATA) [English only]

General information: Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Povidone-Iodine

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Section 15: Other Regulatory Information (Continued)

Other Regulations: Not available..

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): R36- Irritating to eyes. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

<u>HMIS (U.S.A.)</u>:

Health Hazard: 2 Fire Hazard: 1 Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1 Reactivity: 0 Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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