

MATERIAL SAFETY DATA SHEET

1) Chemical Product and Company Identification

Common Name : **POVIDONE IODINE**

Name of Manufacturer / Supplier: **ESKAY IODINE PVT. LTD.**
Plot no: 907/2, GIDC Industrial Estate,
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Synonym : Polyvinylpyrrolidone Iodine; Poly(1-(2-oxo-1-pyrrolidinyl)ethylene)iodine Complex;
PVP-Iodine; Betadine

Chemical Name : Povidone Iodine
Chemical Family : Not Available
Chemical Formula : (C₆H₉NO)_n.xI
CAS No. : 25655-41-8
RTECS : TR1579600
TSCA : TSCA 8(b) Inventory : Povidone Iodine

2) Composition and Information on Ingredients

		EXPOSURE LIMITS			
Name	CAS	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
Povidone Iodine	25655-41-8				100

Toxicological Data On ingredients **POVIDONE IODINE**
ORAL (LD 50) Acute : 8000 mg / kg [Rat]. 8100 mg / kg [Mouse].

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).

Potential Chronic Health Effects : 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.

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.

Inhalation :	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.
Ingestion :	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 collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion :	Not available.

5) Fire and Explosion Data

Flammability of the Product :	May be combustible at high temperature.
Auto-Ignition Temperature :	Not available.
Flash Points :	Not available.
Flammable Limits :	Not available.
Products of Combustion :	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂)
Fire Hazards in Presence of Various Substances :	Slightly flammable to flammable in presence of heat. Non-Flammable in presence of shocks.
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 :	Small Fire : Use Dry chemical powder. Large Fire : Use water spray, fog or foam. Do not use water jet.
and Instructions	
Special Remarks on Fire Hazards :	Not Available.
Special Remarks on Explosion Hazards :	A mixture of Povidone solution and hydroxide peroxide 3 % will explode.

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.

7) Handling and Storage

Precautions :	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).

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 users 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 / m ³) Inhalation Total.
TWA :	5 (mg / m ³) Inhalation Respirable.
	Consult local authorities for acceptable exposure limits.

9) Physical and Chemical Properties

Physical state and appearance Odor :	Solid (Powdered solid)
Molecular Weight :	Not Available
pH (1% soln/water) :	Not Available
Boiling Point :	Not Available
Melting Point :	Not Available
Critical Temperature :	Not Available
Specific Gravity :	Not Available
Vapor Pressure :	Not Available
Vapor Density :	Not Available
Volatility :	Not Available
Odor Threshold :	Not Available
Water/Oil Dist. Coeff. :	Not Available
Ionicity (in Water) :	Not Available
Dispersion Properties :	Not Available
Solubility :	Easily soluble in cold water, hot water. Insoluble in diethyl ether, acetone. Practically insoluble in carbon tetrachloride, hexane and chloroform.

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 substance :	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.

11) Toxicological Information

Routes of Entry :	Absorbed through skin. Inhalation. Ingestion.
Toxicity to Animals :	Acute oral toxicity (LD50) : 8000mg / kg (Rat).

Chronic Effects on Humans : MUTAGENIC EFFECTS : Mutagenic for bacteria and / or yeast.
Other Toxic Effects on : Hazardous in case of ingestion, of inhalation.
Humans 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.

Special Remarks on other Toxic Effects on Humans : Acute Potential Health Effects :-
Skin : May cause mild skin irritation. It may be absorbed through skin.
Topical application of Povidone Iodine may 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.

12) Ecological Information

Eco toxicity : Not Available.

BOD5 and COD : Not Available.

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

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

Special Remarks on the :
Products of Biodegradation Not Available.

13) Disposal Considerations

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

14) Transport Information

DOT Classification : Not a DOT controlled material (United States).

Identification : Not Applicable

Special Provisions for Transport : Not Applicable

15) Other Regulatory Information and Pictograms

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

Other Regulations : Not Available.

Other Classification : WHMIS (Canada) : Not controlled under WHMIS (Canada).
DSCL (EEC) : R36- Irritating to eyes.

Protective Equipment : Gloves, Lab Coat, Dust Respirator. Be sure to use an approved /
Certified respirator or equivalent. Splash Goggles.

16) Other Information



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All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Eskay Iodine Pvt. Ltd. assumes no responsibility for the completeness or accuracy of the information contained herein.

For **ESKAY IODINE PVT. LTD.**

Sunil Sharda

AUTHORISED SIGNATORY