SAFETY DATA SHEET
POVIDONE IODINE BP/USP

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME
POVIDONE IODINE BP/USP

PRODUCT NO.
PVP IODINE

SUPPLIER
Lansdowne Chemicals Plc
Winstons House
Carterton, Oxford
OX18 3EZ
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24: +44 (0)1270 502891 OR +44 (0)1865 407333

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification</th>
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<tr>
<td>POLYVINYLPYRROLIDONE IODINE</td>
<td></td>
<td>25655-41-8</td>
<td>60-100%</td>
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The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION
Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.
If respiratory problems, artificial respiration/oxygen.

INGESTION
Rinse mouth thoroughly. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical.
DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention.

SKIN CONTACT
Remove affected person from source of contamination. Rinse the skin immediately with lots of water.

EYE CONTACT
Rinse the eye with water immediately. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Water.

SPECIAL FIRE FIGHTING PROCEDURES
Use supplied air respirator if product is involved in a fire.

UNUSUAL FIRE & EXPLOSION HAZARDS
May develop highly toxic or corrosive fumes if heated. May ignite other combustible materials.
POVIDONE IODINE BP/USP

SPECIFIC HAZARDS
Toxic gases/vapours/fumes of Iodine.

PROTECTIVE MEASURES IN FIRE
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust.

ENVIRONMENTAL PRECAUTIONS
Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

SPILL CLEAN UP METHODS
Collect and reclaim or dispose in sealed containers in licensed waste. Flush area with water.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Avoid spilling, skin and eye contact. Wear full protective clothing for prolonged exposure and/or high concentrations. Avoid handling which leads to dust formation. Do not breathe vapour/dust.

STORAGE PRECAUTIONS
Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from light, including direct sunrays. Keep away from heat, sparks and open flame.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS
No exposure limits noted for ingredient(s).

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES
Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT
No specific recommendation made, but protection must be used when the general level exceeds 10 mg/m3.

HAND PROTECTION
Use protective gloves made of: Rubber (natural, latex). Obtain the appropriate professional advice taking into account of the conditions under which the glove is used.

EYE PROTECTION
Wear approved safety goggles.

OTHER PROTECTION
Wear appropriate clothing to prevent repeated or prolonged skin contact. Provide eyewash station and safety shower.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Powder, dust

COLOUR
Brown

SOLUBILITY
Slightly soluble in water. Soluble in Ethanol.

MELTING POINT (°C)
300

VAPOUR PRESSURE
<0.1 mmHg @ 20 °C

pH-VALUE, DILUTED
1.5 to 2.5 @ 10% %

DECOMPOSITION
350

SOLUTION
TEMPERATURE (°C)

FLASH POINT (°C)
>100 Not noted.

10 STABILITY AND REACTIVITY
POVIDONE IODINE BP/USP

STABILITY
Stable under normal temperature conditions.

CONDITIONS TO AVOID
Keep away from reactive or combustible materials. Avoid direct sunlight and all heat sources.

HAZARDOUS POLYMERISATION
Will not polymerise.

MATERIALS TO AVOID
Strong reducing agents. Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50
>8000 mg/kg (oral rat)

TOXIC DOSE 2 - LD 50
8100 mg/kg (oral-mouse)

TOXICOLOGICAL INFORMATION
To the best of our knowledge, the chemical/physical/toxicological properties have not been thoroughly investigated.

INHALATION
May cause irritation to the respiratory system.

INGESTION
May cause burns in mucous membranes, throat, oesophagus and stomach.

SKIN CONTACT
Powder may irritate skin.

EYE CONTACT
May cause eye irritation.

HEALTH WARNINGS
Repeated exposure may cause chronic eye irritation. Tracheobronchitis, pulmonary oedema. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury.

OTHER HEALTH EFFECTS
Chronic exposure-teratogen Human, 200PPM Cell type: Other cell types, DNA damage Chronic exposure-teratogen: Possible risk of congenital malformation in the foetus Chronic exposure: reproductive hazard Rat 1450 mg/kg Route of application: Subcutaneous, Exposure time: (15-22D Preg/3W Post) Effects on newborn: Biochemical and metabolic, physical

TARGET ORGANS
Thyroid Kidneys.

12 ECOLOGICAL INFORMATION

ECOTOXICITY
Dangerous for the environment if discharged into watercourses. Very toxic to fish and other aquatic life.

MOBILITY
Soluble in aqueous systems.

BIOACCUMULATION
Not anticipated.

DEGRADABILITY
Readily biodegradable.

WATER HAZARD CLASSIFICATION
Data not yet available.

13 DISPOSAL CONSIDERATIONS
POVIDONE IODINE BP/USP

DISPOSAL METHODS
Observe all federal, state and local environmental regulations. Incinerate with provision for removal of effluent gases by scrubber.

14 TRANSPORT INFORMATION

No transport warning sign required.

ADR CLASS
Not classified for transportation.

15 REGULATORY INFORMATION

CONTAINS POLYVINYLPYRROLIDONE IODINE

RISK PHRASES
NC Not classified.

SAFETY PHRASES
S24 Avoid contact with skin.
S24/25 Avoid contact with skin and eyes.

16 OTHER INFORMATION

INFORMATION SOURCES
Material Safety Data Sheet, Misc. manufacturers.

REVISION COMMENTS
Revision due to amendment of contents in section: 16. 1.

REVISION DATE 26-08
REV. NO./REPL. SDS 007
GENERATED
SDS NO. 10620

RISK PHRASES IN FULL
NC Not classified.

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