MATERIAL SAFETY DATA SHEET

POVIDONE-IODINE TOPICAL SOLUTION

MANUFACTURER:
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FOR ADDITIONAL PRODUCT INFORMATION CONTACT:
CARDINAL HEALTH/PREP & SKIN CARE MARKETING: 1-847-785-3262

SECTION 1: IDENTIFICATION

TRADE/COMMON NAMES: POVIDONE IODINE TOPICAL SOLUTION

PRODUCT CODE(S):
4420, 4450B, 4460A, 4463, 4464, 4465B, 4468, 4469A, 29906-001, 29906-002, 29906-004, 29906-008, 29906-016, 29906-032, 71-14510

DESCRIPTION:
TOPICAL SOLUTION IN HIGH DENSITY POLYETHYLENE BOTTLE (OR FOR 71-14510, SOLUTION IS IN 55 GALLON HIGH DENSITY POLYETHYLENE BLUE DRUMS).
PRODUCT USE: TOPICAL PREOPERATIVE PREP SOLUTION

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
<th>%</th>
<th>EXPOSURE LIMITS</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>84-85</td>
<td>NE</td>
<td>NONE</td>
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</tr>
<tr>
<td>Povidone Iodine, USP</td>
<td>10</td>
<td>NE</td>
<td>NONE</td>
<td>NONE</td>
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<tr>
<td>Proprietary Ingredients</td>
<td>6</td>
<td>NE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
</tbody>
</table>

KEY:
NE = NOT ESTABLISHED
TWA = TIME WEIGHTED AVERAGE
STEL = SHORT TERM EXPOSURE LIMIT

*NOTICE OF INTENDED CHANGE, 400 PPM TWA, 500 PPM STEL

KEY TO NOTES: NONE - NONE OF THE BELOW APPLIES TO THIS COMPONENT

1) (Suspect) Carcinogen-OSHA, ACGIH, NTP OR IARC
2) SARA Title III Section 313 Chemical
3) SARA Title III Extremely Hazardous Substance
4) CERCLA Hazardous Substance and Reportable Quantities
5) RCRA Hazardous Waste

SECTION 3: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Povidone Iodine Topical Solution

EYES: NON-IRRITATING TO EYES.

SKIN: NON-IRRITATING TO THE SKIN.

INHALATION: MAY CAUSE RESPIRATORY TRACK IRRITATION.

INGESTION: NON-TOXIC.

SECTION 4: FIRST AID MEASURES
EYES: NO ADVERSE EFFECTS ARE EXPECTED.

SKIN:
NO ADVERSE EFFECTS ARE EXPECTED. IF REDNESS OR IRRITATION OCCURS, GET MEDICAL ATTENTION.

INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY.

INGESTION: NO ADVERSE EFFECTS ARE EXPECTED.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:
PRODUCT IS NONCOMBUSTIBLE. USE AGENT MOST APPROPRIATE TO EXTINGUISH SURROUNDING FIRE.

FIRE-FIGHTING PROCEDURES:
FIRE FIGHTER SHOULD WEAR FULL-FACE POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA), GLOVES AND FULL SKIN PROTECTION.

UNUSUAL FIRE/EXPLOSION HAZARDS:
HARSH IODINE FUMES ARE EMITTED WHEN PRODUCT IS HEATED TO GREATER THAN 176 DEG. F (80 DEG. C).

HAZARDOUS DECOMPOSITION PRODUCTS:
THERMAL DECOMPOSITION MAY YIELD IRRITATING, CORROSIVE AND/OR TOXIC FUMES.

FLASH POINT: NONE
METHOD: NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: SEE SECTION 8.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:
ABSORB SPILL WITH INERT MATERIAL THEN PLACE IN SUITABLE CONTAINER AND DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE
HANDLING:
AVOID EXCESSIVE HEAT (NOT TO EXCEED 104 DEG. F/40 DEG. C).
WASH AFTER HANDLING AND USE IN WELL VENTILATED AREA.

STORAGE:
PROTECT FROM FREEZING. STORE AT ROOM TEMPERATURE (25 DEG. C/77 DEG. F).

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:
NO OCCUPATIONAL EXPOSURE LIMITS HAVE BEEN ESTABLISHED BY OSHA, ACGIH OR
NIOSH FOR THE FORMULATION.

ENGINEERING CONTROLS:
NO SPECIAL CONTAINMENT IS REQUIRED. LOCAL EXHAUST VENTILATION SHOULD BE
PROVIDED.

PERSONAL PROTECTIVE EQUIPMENT:
IF USED PER MANUFACTURERS INSTRUCTIONS ON THE PRODUCT FOR SURGICAL
SCRUBBING, NONE OF THE FOLLOWING IS REQUIRED.

RESPIRATORY PROTECTION: NA
SKIN: NA
HANDS: NA
EYES: NA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: BROWN LIQUID WITH A MILD IODINE ODOR
pH: 1.5 - 6.0
BOILING POINT: 212 F
VAPOR DENSITY (AIR = 1): NA
VAPOR PRESSURE: NA
SOLUBILITY IN WATER: SOLUBLE

EVAPORATION RATE (DIETHYL ETHER = 1): NA

**SECTION 10: STABILITY AND REACTIVITY**

STABLE: STABLE UNDER NORMAL STORAGE AND HANDLING CONDITIONS (SECTION 7)

INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN

**SECTION 11: TOXICOLOGICAL INFORMATION**

ACUTE EFFECTS:

EYES: NON-IRRITATING TO THE EYE BASED ON OPHTHALMIC TEST.

SKIN:
NON-
IRRITATING TO THE SKIN BASED ON PRIMARY SKIN IRRITATION TEST, SINGLE 4 HOUR EXPOSURE, RABBIT: NON-IRRITATING

MUCOUS MEMBRANE:
NON-IRRITATING. NO IRRITATION ON MACROSCOPIC LEVEL AND WELL TOLERATED BY MICROSCOPIC EVALUATION.

INGESTION:
NON-IRRITATION, BASED ON LIMIT TEST, ORAL, RAT:
NO MORTALITY OBSERVED, NO MACROSCOPIC CHANGES ATTRIBUTED TO ORAL DOSE.

CARCINOGEN: NA

MUTAGEN: NA

TERATOGEN: NA

**SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY DATA: NO DATA AVAILABLE FOR FINAL PRODUCT.

ENVIRONMENTAL HAZARDS: NO DATA AVAILABLE FOR FINAL PRODUCT.
SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
DISPOSE OF IN ACCORDANCE WITH COUNTRY, REGIONAL, FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 14: TRANSPORTATION INFORMATION

DOT DESIGNATION: NOT LISTED

SECTION 15: REGULATORY INFORMATION

US REGULATIONS:
HAZARD COMMUNICATION STANDARD: NA
TSCA STATUS: 25655-41-8
CALIFORNIA PROPOSITION 65:
NOT LISTED. REFER TO SECTION 2 FOR ADDITIONAL US REGULATORY STATUS

SECTION 16: OTHER INFORMATION

NEITHER CARDINAL HEALTH NOR ANY OF ITS AFFILIATES OR SUBSIDIARIES ASSUMES ANY LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS INFORMATION. FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL FOR A PARTICULAR USE 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. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE APPROPRIATE HANDLING, DISPOSAL OR OPEN DISPOSITION FOR THE MATERIAL OR EMERGENCY RESPONSE ACTIONS IN LIGHT OF THE CONDITION OF THE MATERIAL, APPLICABLE REGULATIONS AND OTHER CIRCUMSTANCES.

REPLACES INFORMATION DATED: 11/21/02
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