



MATERIAL SAFETY DATA SHEET						
<b>PRODUCT NAME</b> (as it appears on label)		<b>MSDS OF POVIDONE IODINE SWABSTICK</b>		<b>DESCRIPTION:</b> A topical antiseptic.		
<b>ISSUED BY:</b>		Fred Wang		<b>DATE PREPARED:</b>	2023.04.27	
<b>HEALTH HAZARDS:</b>		Cause allergic action, stimulation on skin and mucus, adverse action is rare. But external used on the pregnant, lactating women and infant will cause obvious iodine absorption, local irritation and burning sensation, they are common reactions The large area and long term application cause neutropenia, severe burns patients can cause metabolic acidosis, liver damage , contact dermatitis, hypothyroidism and iodine poisoning. Contact a <b>POISON CONTROL CENTER</b> if ingested.				
<b>PHYSICAL HAZARDS:</b>		Slight Irritation of the mucous membrane, no corrosion, and low toxicity.				
<b>PHYSICAL FORM:</b>		Cotton swab saturated with 10% povidone iodine solution				
<b>APPEARANCE:</b>		Yellowish-brown amorphous hygroscopic powder. A slight characteristic odor.				
<b>ODOR:</b>		Slight odor				
<b>HMS RATING (concentrate)</b>		<b>HEALTH:</b> 2		<b>REACTIVITY:</b> 0		<b>FLAMMABILITY:</b> 0
						<b>PERSONAL:</b> 0
<b>HAZARD RATING:</b> 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme A = Safety Glasses B =Safety Glasses & Gloves						
SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS						
<b>HAZARDOUS COMPONENTS</b> (Specific Chemical Identity: Common Names)	<b>CAS #'s</b>	<b>OSHA PEL</b>	<b>ACHIH TLV</b>	<b>Other Limits Recommended</b>	<b>% (Optional)</b>	
Povidone Iodine	25655-41-8				10%	
Citric acid	77-92-9				0.1%	
Alkyl glucoside	383178-66-3				0.2%	
Sodium Hydroxide	1310-73-2				0.3%	
Purified Water	7732-18-5				89.4%	
N/A = Not Applicable N/E = Not Established N/D = Not Determined N/L = Not Listed						
Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.						
SECTION 3 - HAZARDS IDENTIFICATION (Potential Health Effects)						
<b>EYE:</b>		May cause eye irritation				

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<b>SKIN:</b>	Systemic effects by skin contact include hemorrhage and allergic dermatitis.
<b>INHALATION (BREATHING):</b>	May cause respiratory tract irritation.
<b>INGESTION (SWALLOWING):</b>	May cause irritation of the digestive tract.
<b>EXPOSURE EFFECTS</b>	Headache, dizziness, confusion, delirium, and hallucinations may be noted following severe intoxication. Seizure has been reported following mediastinal irrigation
<b>CANCER:</b>	N/A
<b>TARGET ORGANS:</b>	N/A
<b>DEVELOPMENTAL:</b>	N/A
<b>OTHER COMMENTS:</b>	N/A
<b>PRE-EXISTING MEDICAL CONDITIONS:</b>	N/A

## **SECTION 4 - FIRST AID MEASURES**

<b>Eyes:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
<b>SKIN:</b>	Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.
<b>INHALATION (BREATHING):</b>	Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
<b>INGESTION (SWALLOWING):</b>	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
<b>NOTE TO PHYSICIANS:</b>	·Keep victim warm and quiet.

## **SECTION 5 - FIREFIGHTING MEASURES**

<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	N/A
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<b>FIREFIGHTING INSTRUCTIONS:</b>	Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing media: Use agent most appropriate to extinguish fire
<b>SECTION 6- ACCIDENTAL RELEASE MEASURES</b>	
<b>IF SPILLED/RELEASED:</b>	Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Provide ventilation
<b>SECTION 7- HANDLING AND STORAGE</b>	
<b>HANDLING &amp; STORAGE:</b>	<ul style="list-style-type: none"> <li>·Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation</li> <li>·Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Store in air tight containers..</li> </ul>
<b>SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
<b>RESPIRATORY PROTECTION:</b>	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
<b>SKIN PROTECTION:</b>	Wear appropriate protective gloves to prevent skin exposure
<b>EYE/FACE PROTECTION:</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Clothing: Wear appropriate protective clothing to prevent skin exposure.
<b>SECTION 9 - PHYSICAL / CHEMICAL PROPERTIES</b>	
<b>Note: Unless otherwise stated, values are determined at 20 degrees Celsius (68 degrees Fahrenheit) and 760 mm Hg (1 atm)</b>	
<b>FLASH POINT:</b>	93.9°C
<b>FLAMMABLE/EXPLOSIVE LIMITS (%):</b>	Not available
<b>AUTO IGNITION TEMPERATURE:</b>	Not available
<b>APPEARANCE:</b>	Yellowish-brown amorphous hygroscopic powder.
<b>PHYSICAL STATE:</b>	Power
<b>ODOR:</b>	Slight odor
<b>MELTING POINT:</b>	300°C
<b>VAPOR PRESSURE (mm Hg):</b>	0.132mmHg at 25°C
<b>BOILING POINT:</b>	Not available
<b>FREEZING/MELTING POINT:</b>	Not available
<b>SOLUBILITY IN WATER:</b>	Soluble

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SPECIFIC GRAVITY:	Not available
EVAPORATION RATE (nBuAc=1):	Not available
<b>SECTION 10 - STABILITY &amp; REACTIVITY</b>	
CHEMICAL STABILITY:	Stable
CONDITIONS TO AVOID:	N/A
INCOMPATIBLE MATERIALS:	Ether, chloroform, acetone, ethylene oxide and carbon tetrachloride
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A
HAZARDOUS POLYMERIZATION:	N/A
<b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>	
<p>The concentrations used clinically (0.1 to 20%) are toxic for granulocytes and monocytes. Povidone-iodine was cytotoxic to SH-SY5Y (neuronal) and RSC96 (Schwann) cells.</p> <p>Povidone-Iodine preparation was ototoxic in guinea pigs.</p>	
<b>SECTION 12 – ECOLOGICAL INFORMATION</b>	
<p>ENVIRONMENTAL MOBILITY</p> <ul style="list-style-type: none"><li>· This product is water soluble and is expected to remain primarily in water.</li></ul> <p>ENVIRONMENTAL DEGRADABILITY</p> <ul style="list-style-type: none"><li>· This product Oxides of nitrogen, irritating and toxic fumes and gases, iodine.</li><li>· This substance is expected to be removed in a waster water treatment facility.</li></ul> <p>ECOTOXICITY AND BIOACCUMULATION</p> <ul style="list-style-type: none"><li>· Low acute toxicity to aquatic organisms is expected.</li></ul>	
<b>SECTION 13 - DISPOSABLE CONSIDERATIONS</b>	
<p>The following advice only applies to the product as supplied.</p> <p>Combination with other material may well indicate another route or disposal. If in doubt, contact the local Authorities.</p> <p>Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.</p> <p>Care should in any case be taken to ensure compliance with national and local regulations.</p> <p>This product is NOT suitable for disposal by either landfill or via municipal powers, drains, natural streams or rivers.</p> <p>This product should be disposed of in accordance with all applicable local and national regulations and to dispose of containers with care.</p> <p>This material, as supplied, is not hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine, whether the altered material is hazardous waste. Consult appropriate state, regional, or local regulations for additional requirements.</p> <p>Dispose of in accordance with local regulations.</p>	
<b>SECTION 14 - TRANSPORT INFORMATION</b>	
Dangerous goods code:N/A	



UN code:/	
Packaging groups:/	
<b>SECTION 15 - REGULATORY INFORMATION</b>	
<b>COMPONENT</b>	
GOVERNING DIRECTIVE:	Dangerous Substances Directive 67/548/EC, as modified.

<b>Warning:</b>	
S07/09	Keep container tightly closed and in a ventilated place
S16	Keep away from sources of ignition-No Smoking
S24/25	Avoid contact with wound and eyes .
S26	In case of contact with eyes, flush immediately with plenty of water and seek medical advice
S33	Take precautionary measures against static discharges
S43B	In case of fire, use sand, earth, chemical powder or alcohol type foam
EPA (CERCLA) Reportable Quantity:	
<b>SECTION 16 - OTHER INFORMATION</b>	
<b>DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES</b>	<p>The product information contained in this Material Safety Data Sheet was collected from various supplier sources. All product claims and specifications are those of "Co ulppq'J gcnj ectg'Uj cpi j ckt'Eq0'Nf 0uuppliers and may not have been" independently verified by Amsino. Amsino is not esponsible for errors or omissions in, or completeness of, the product information.</p> <p>ALL WARRANTIES OF ANY KIND OR NATURE, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF THE SUITABILITY OR FITNESS OF ANY PRODUCT FOR A PARTICULAR PURPOSE</p>