

Aurora Pharmaceutical, Inc.

MATERIAL SAFETY DATA SHEET

Section I – Product Identification			
Product Name or Identity:	Barrier II Wound Care Spray with Pain Relief 32 oz.		
Manufacturer's Name:	Aurora Pharmaceutical, LLC	Emergency Phone No.	888-863-9376
	1200 S Hwy 3	Fax No.:	507-650-7250
	Northfield, MN 55057	Item number:	50-1122
Date Prepared or Revised: May 5, 2011			
Chemical Family:	1- ethenyl-2-pyrrolidinone homopolymer compound with iodine		
Formula:	Mixture		
Hazard Classification:	Non-hazardous		
HMIS Rating System:	Health - 2 /Flammability - 3 /Reactivity - 0		

Section II – Hazardous Ingredients / Identity Information			
Ingredient	CAS#	TLV-TWA	Percent
Povidone-Iodine	25655-41-8	NE	20%
Ethyl Alcohol	64-17-5	1000 ppm	Less than 80%
Isopropyl Alcohol	67-63-0	400 ppm	Less than 5%
Lidocaine	137-58-6		2%

The hazard communication standard requires that such mixtures be assumed to present the same health hazard as do components that constitute at least 1% of the mixture (0.1% for carcinogens) although OSHA has noted that the hazards of individual components may be altered by including them in a mixture. Some of the ingredients of this mixture are a trade secret. NE=not established.

Section III – Physical Characteristics	
Boiling Point: 78°C	Specific Gravity (H ₂ O = 1): 0.878
Vapor Pressure (mm Hg.): 59.3 mm Hg	Physical State: Liquid
Vapor Density (AIR = 1): 1.59	Evaporation Rate (Butyl Acetate = 1): Not available
Solubility in Water: Soluble in water and in alcohol	
Appearance and Odor: Reddish brown colored liquid, with slight odor	

Section IV – Fire and Explosion Hazard Data	
Flash Point (<i>Method Used</i>): 61.9°F	Explosion Limits: 3.3 vol % - 19.0 vol %
Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or foam as appropriate for the surrounding material.	
Special Fire Fighting Procedures: Evacuate personnel to a safe area. Move containers from area if it can be done without risk. Wear protective clothing and positive-pressure, self-contained breathing apparatus with full protective gear.	
Unusual Fire and Explosion Hazards:	

Section V – Reactivity Data			
Stability	Unstable		Conditions to Avoid: Open flame
	Stable	x	Low stability hazard expected at normal operating temperatures.
Incompatibility (<i>Materials to Avoid</i>): Strong alkalis or reducing agents			
Hazardous Decomposition or Byproducts: Will not decompose under conditions of usual handling.			
Hazardous Polymerization	May Occur		Conditions to Avoid:
	Will Not Occur	x	

Section VI – Health Hazard Data			
Route(s) of Entry:	Inhalation: Irritating to respiratory system	Skin: Irritating to skin	Ingestion: Toxic if swallowed.
			Eyes: Causes eye irritation
Health Hazards (<i>Acute and Chronic</i>)	Exposure of liquid or vapor to eyes or mucus membranes may cause temporary numbness due to local anesthetic action of lidocaine.		
Carcinogenicity: Not listed (National Toxicology Program)	IARC Monographs? Not listed (International Agency for Research in Cancer)	OSHA Regulated? Yes - flammability	
Signs and Symptoms of Exposure: TOXIC BY INGESTION. EYE, SKIN, AND RESPIRATORY TRACT IRRITANT SENSITIZER. SINGLE OVEREXPOSURE INGESTION: If swallowed, do not induce vomiting. Drink several glasses of milk or water. Never give anything by mouth to an unconscious person. Get medical attention SKIN CONTACT: Remove contaminated clothing. Flush skin with plenty of water and wash thoroughly with soap and water. Wash contaminated clothing before reuse. INHALATION: If aerosols or iodine vapors are inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. OVER-EXPOSURE:			
Medical Conditions Generally Aggravated by Exposure: See above			
WARNING: See above			
Emergency / First Aid Procedures	Ingestion: If swallowed, get medical help or contact a Poison Control Center right away.		
	Inhalation: If aerosols or iodine vapor are inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
	Eye Contact: Do not use in eyes. Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention		
	Skin Contact: Do not use if you are allergic to povidone-iodine or lidocaine.. Prolonged exposure may cause irritation. Flush skin with plenty of water and was thoroughly with soap and water. If irritation (Redness, itching, swelling) develops, seek medical attention. Wash contaminated clothing before reuse.		

Section VII – Precautions for Safe Handling and Use

Accidental Release Measures: **CONTAINMENT:** Prevent material from entering sewers, waterways, or low areas. Dike area for later disposal.

Waste Disposal Method: **Spill Clean-up:** Wear suitable protective clothing and equipment. Vacuum or mop up liquid and place in a container suitable for chemical waste; avoid generation of aerosols. Place collected material into a suitable container for disposal. Thoroughly wash area with detergent and water. Dispose of all solid waste and wash and rinse water in accordance with federal, state and local regulations.

Handling and Storage: **Handling (Personnel):** Avoid procedures that will generate aerosols. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wash contaminated clothing after use. Use with adequate ventilation.

Handling (Physical Aspects): Close container after each use. Do not generate aerosols.

Storage: Store in an airtight container. Keep container closed. Store at room temperature. Keep from contact with oxidizing materials.

Other Precautions:

Section VIII – Control Measures

Respiratory Protection (Specify Type): WEAR AN APPROPRIATE NIOSH-APPROVED AIR PURIFYING RESPIRATOR OR POSITIVE PRESSURE AIR-SUPPLIED RESPIRATORY IN SITUATIONS WHERE A RESPIRATOR IS JUDGED APPROPRIATE TO PREVENT INHAHALATION.

Ventilation	Local Exhaust: USE ONLY IN WELL VENTILATED AREA.	Special:
	Mechanical (General):	Other:
Protective Gloves: WEAR PROTECTIVE GLOVES		Eye Protection: WEAR SAFETY GLASSES WITH SIDE SHIELDS

Other Protective Clothing or Equipment: WEAR IMPERVIOUS CLOTHING SUCH AS GLOVES, LAB COAT, SHOE COVERS, APRON, OR JUMPSUIT, AS APPROPRIATE, TO PREVENT SKIN CONTACT. CONSULT THE SITE SAFETY PROFESSIONAL FOR ADDITIONAL GUIDANCE AS NEEDED.

Work / Hygienic Practices:

Section IX – Transportation Information

Hazard Class: THIS MATERIAL IS NON-HAZARDOUS UNDER US DOT when shipped in containers of 1 liter or less. ORM-D Consumer Commodity

UN-No - UN1170

Proper Shipping Name- Ethanol

Hazard Class - 3

Packing Group - II

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