

**MATERIAL SAFETY DATA SHEET**

May be used to comply with  
 OSHA'S Hazard Communication Standard,  
 29 CFR 1910.1200.  
 Standard must be consulted for specific requirements

Section I – Product Information and Company Identification			
Product Name or Identity:	Berberex <sup>®</sup> Wound Cleanser		
Manufacturer's Name:	NuVision Pharmaceuticals, LLC.		
	4651 Roswell Road., Suite G-601	Emergency Phone:	678-883-8614
	Atlanta, GA 30342	Contact:	Dr. Gorinshteyn
Date Prepared or Revised:	10/02/2015	e-mail:	<a href="mailto:info@nuvisionpharma.com">info@nuvisionpharma.com</a>

Section II – Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical Identity/Common Names)	OSHA PEL (Permissible Exposure Limits)	ACGIH TLV (Threshold Limit Value)	Toxicity Data LD50
Benzethonium Chloride (CAS# 121-54-0) 0.1%	Not Established	Not Established	Oral Rat 420mg/Kg
Allantoin (CAS# 97-59-6) 0.5%	Not Established	Not Established	Oral Rat 5000mg/Kg
Ethanol (CAS# 64-17-5) 3%	Not Established	Not Established	Oral Rat 3632mg/Kg
Inert Materials: Water (7732-18-5) 95.4%	Not Established	Not Established	Not Established
Inert Materials: Botanicals 1%	Not Established	Not Established	Not Established

Section III – Physical/Chemical Characteristics	
Physical State: Liquid	Solubility in Water: Complete
Appearance and Odor: non-distinctive odor; clear/yellow	Density: 0.99g/cm <sup>3</sup>
Boiling Point: 212° F (100° C)	Specific Gravity (H <sub>2</sub> O = 1): 0.99
Freezing/Melting Point: 32°F	Melting Point: N/A
Vapor Pressure (mm Hg.): 25 mm Hg	Evaporation Rate (Butyl Acetate = 1): N/A
Vapor Density (AIR = 1): N/A	pH (@25° C): 4.7-5
Flammability/Combustibility: NONE	Evaporation Rate (nBuAc = 1): Not determined
Appearance and Odor: Light-Green Liquid, practically odorless.	

Section IV – Fire and Explosion Hazard Data	
Flash Point: Non Flammable	Flammable Limits: LEL (Lower Explosive Limit) - N/A UEL (Upper Explosive Limit) - N/A
Extinguishing Media: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE OR FOAM AS APPROPRIATE FOR SURROUNDING FIRE AND MATERIALS	
Special Fire Fighting Procedures: None Required	
Unusual Fire and Explosion Hazards: None	

Section V – Stability and Reactivity Data			
Stability	UNSTABLE		
	STABLE	X	Conditions to Avoid: MATERIAL IS STABLE FROM A SAFETY POINT OF VIEW
Incompatibility (Materials to Avoid): UNKNOWN			
Hazardous Decomposition or Byproducts: WHEN HEATED TO DECOMPOSITION MATERIAL EMITS TOXIC FUMES			
Hazardous Polymerization			
	Will Not Occur	X	

**MATERIAL SAFETY DATA SHEET**

May be used to comply with  
 OSHA'S Hazard Communication Standard,  
 29 CFR 1910.1200.  
 Standard must be consulted for specific requirements

<b>Section VI – Health Hazard Data and First Aid Procedures</b>			
Route(s) of Entry:	Inhalation - Minor	Skin and eye - Primary	Ingestion - Minor
Health Hazards (Acute and Chronic)	Eye, skin and/or respiratory tract irritation possible. May cause hypersensitivity in some people.		
Carcinogenicity:	NTP? NO (National Toxicology Program)	IARC Monographs? NO (International Agency for Research in Cancer)	OSHA Regulated? NO
Signs and Symptoms of Exposure: May cause minor irritation to eyes and skin			
Medical Conditions Generally Aggravated by Exposure: Not Known			
Labeling contains this caution statement: KEEP OUT OF REACH OF CHILDREN			
HUMAN WARNINGS: Some people may be allergic to the ingredients. No severe allergic reactions were observed in open label clinical studies			
Emergency / First Aid Procedures	Ingestion: Give water to dilute, induce vomiting, repeat until clear, and seek medical attention if necessary		
	Eye Contact: May cause minor irritation. Flush with cold water for 15 minutes. Seek medical attention if necessary		
	Skin Contact: Wash with soap and water		

<b>Section VII – Precautions for Safe Handling and Use</b>
Accidental Release Measures: Wear protective gloves and safety glasses. Mop area with soap and water.
Waste Disposal Method: Dispose in accordance with local, state and federal regulations.
Handling and Storing: Store at room temperature 68-78°F (20-25°C) Avoid overheating and freezing.
Handling Precautions: Spilled material is slippery; wash thoroughly after handling.
Other Precautions: None

<b>Section VIII – Control Measures</b>		
Respiratory Protection (Specify Type): None		
Ventilation	Local Exhaust: Recommended	Special: None
	Mechanical (General): Recommended	Other: None
Protective Gloves: Wear rubber gloves to avoid contact	Eye Protection: Safety glasses	
Other Protective Clothing or Equipment: None		
Work / Hygienic Practices: Avoid contact, wash after handling		

<b>Section IX – Disposal Considerations</b>
Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
Disposal Regulatory Requirements: Check local, state and federal requirements
Container Cleaning and Disposal: Discard in suitable trash container
Other Considerations: None

<b>Section IX – Transport Information</b>
DOT Transportation Data (49 CFR 172.101): Not regulated

## MATERIAL SAFETY DATA SHEET

May be used to comply with  
OSHA'S Hazard Communication Standard,  
29 CFR 1910.1200.  
Standard must be consulted for specific requirements

### Section X - Regulatory Information

EPA Regulations: None known  
OSHA Regulations: None known  
State Regulations: May vary from state to state

### Section XI - Toxicological Information

Acute Oral Toxicity: NO  
Primary Skin Irritation: Not an Irritant  
Primary Oral Irritation: Not an Irritant  
Primary Eye Irritation: Not an Irritant

### Section XII - Other Information

Additional Hazard Rating Systems: None Known

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. NuVision Pharmaceuticals, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.

These suggestions should not be confused with state, municipal or insurance requirements, and constitute  
NO WARRANTY.