

## Aurora Pharmaceutical, Inc.

### MATERIAL SAFETY DATA SHEET

Section I – Product Identification			
Product Name or Identity:	<b>Pro-Tec Chlorhexidine Gluconate Concentrate 16% Gallon</b>		
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:	50-1089
Date Prepared or Revised: February 9, 2011			
<b>Chemical Family:</b> Mixture			
<b>Formula:</b>	Solution		
<b>Hazard Classification:</b>	Non-hazardous		
<b>HMIS Rating System:</b>	Health - 1 /Flammability - 0 /Reactivity - 0		

Section II – Hazardous Ingredients / Identity Information			
Ingredient	CAS#	TLV-TWA	Percent
Chlorhexidine Gluconate	18472-51-0	NE	16%
Other ingredients			84%

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: NA	Specific Gravity (H <sub>2</sub> O = 1): 1.047
Vapor Pressure (mm Hg.): NA	Percent Volatile: NA
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): Approximately same as water
Solubility in Water: Fully miscible	
Appearance and Odor: Clear dark aqua color with pleasant soap fragrance	

Section IV – Fire and Explosion Hazard Data	
Flash Point ( <i>Method Used</i> ): NA	Explosion Limits: NA
Extinguishing Media: Product is not flammable. Use fire fighting measures that suit the surrounding fire.	
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: Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride, and oxides of carbon and nitrogen.

### Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid: None known.
	Stable	x	Low stability hazard expected at normal operating temperatures.
Incompatibility ( <i>Materials to Avoid</i> ): Strong oxidizing agents, strong alkalis and strong mineral acids.			
Hazardous Decomposition or Byproducts: Nitrous oxides, Carbon monoxide and carbon dioxide.			
Hazardous Polymerization	May Occur	x	Conditions to Avoid: Storage in excess heat (104 F) over a long period of time. Decomposition will not occur if used and stored according to specifications
	Will Not Occur		

### Section VI – Health Hazard Data

Route(s) of Entry:	Inhalation: May have significant signs or symptoms indicative of adverse health hazard.	Skin: May be a skin irritation.	Ingestion: May cause significant signs or symptoms indicative of adverse health hazard.
			Eyes: May cause major irritation.
Health Hazards ( <i>Acute and Chronic</i> )			
Carcinogenicity: (National Toxicology Program)	(International Agency for Research in Cancer)	OSHA Regulated? Yes	
Signs and Symptoms of Exposure: <b>SINGLE OVEREXPOSURE INGESTION:</b> 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 immediately. <b>SKIN CONTACT:</b> Remove contaminated clothing. Flush skin with plenty of water and wash thoroughly with soap and water. Wash contaminated clothing before reuse. <b>INHALATION:</b> May present an inhalation hazard under anticipated conditions of normal use. If breathing is difficult seek medical attention. <b>EYE CONTACT:</b> In case of contact, immediately flush eyes with plenty of water for at least 20-30 minutes. Get medical attention. <b>OVER-EXPOSURE:</b>			
<b>Medical Conditions Generally Aggravated by Exposure:</b> This is a concentrated solution of Chlorhexidine Gluconate. Wear protective eye equipment as well as respiratory protection. When diluted as directed, the health hazards are greatly reduced.			
<b>WARNING:</b> See above			
<b>Emergency / First Aid Procedures</b>	Ingestion: May cause significant harm. If swallowed, do not induce vomiting get medical attention.		
	Inhalation: May present an inhalation hazard under anticipated conditions of normal use. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
	Eye Contact: Flush eyes with large amounts of water for at least 20-30 minutes. Obtain medical attention immediately.		
	Skin Contact: May present a skin hazard under anticipated conditions of normal use.		

### Section VII – Precautions for Safe Handling and Use

**Accidental Release Measures: CONTAINMENT:** Rinse area with water. When diluted as directed in normal use this product is suitable for entry into any ordinary sanitary sewer system. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Do not allow material to be released to the environment without proper governmental permits.

**Waste Disposal Method:** Dispose in accordance with all local, state and federal regulations. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

**Handling and Storage:** Keep closures tight. Avoid exposure to excessive heat. When Making recommended dilutions from this concentrated solution, use all protective equipment recommended below. Store at room temperature.

**Other Precautions:** Use adequate ventilation. Wash thoroughly after handling.

### Section VIII – Control Measures

**Respiratory Protection** (Specify Type: Use a NIOSH approved respirator with concentrated solution.

<b>Ventilation</b>	Local Exhaust: Provide sufficient ventilation.	Special: Properly operating chemical fume hood for hazardous chemicals and an average face velocity of at least 100 feet per minute.
	Mechanical (General):	Other:
<b>Protective Gloves:</b> Impervious gloves.		<b>Eye Protection:</b> Safety glasses

**Other Protective Clothing or Equipment:** Recommended to use coverall or other protective garments.

**Work / Hygienic Practices:** Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

### Section IX – Transportation Information

THIS MATERIAL IS NOT A HAZARDOUS MATERIAL FOR TRANSPORTATION

ADR/RID class: None

IMDG Class: None

ICAO/IATA Class: None

Hazard Class - None

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