

BEAVER RESEARCH

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MATERIAL SAFETY DATA SHEET

Revision Date: 1/17/2007

Emergency Phones: 269-382-0133

PLEASE NOTE: This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this material. Please read the information on these sheets, and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL and STATE RIGHT-TO-KNOW regulations. Also make this information available to any employee who requests it. It is your obligation to comply with these regulations.

SECTION I - PRODUCT IDENTITY

PRODUCT NAME: BEA-64 Disinfectant

HMIS RATINGS

Health = 1 (Slight)	Flammability = 0 (Minimal)
Reactivity = 0 (Minimal)	Protection = B (Safety Glasses, Gloves)

SECTION II - HAZARDOUS INGREDIENTS

	<u>PERCENT</u>	<u>TLV</u>	<u>CARCINOGEN</u> <u>(OSHA,TP,IARC)</u>
Alkyl (C14-60%, C16-30%, C12-5%,C18-5%), dimethyl benzyl Ammonium Chloride	> 1.0%	None	None
Alkyl (C12-68%, C14-32% Dimethyl Ethylbenzyl Ammonium Chloride	> 1.0%	None	None
2-Butoxyethanol (CAS 111-76-2)		1000 ppm (alcohol)	None

SECTION III - CHEMICAL AND PHYSICAL

Appearance: Clear Blue Liquid	Boiling Point: < 212 ° F
Odor: Pleasant	Melting Point: N/A
pH: 7.0 ± 1.0	Spec. Gravity (H ₂ O = 1): 1.01
Water Solubility: Completely	Vapor Pressure (mm Hg): n/a
Viscosity: Water Thin	VOC Content: 0%

SECTION IV - FIRE AND EXPLOSION HAZARDS

Flash Point (Method): > 140 ° F TCC	Explosion Limits:	Upper: N/A Lower: N/A
Extinguishing Media: Water fog, foam, CO2, halons, dry chemical		
Special Firefighting Procedures and Hazards: Wear eye and skin protection if exposure to liquid is likely. A NIOSH/MSHA approved self-contained breathing apparatus is recommended. Cool fire exposed containers with water spray. Minimize run-off to sewers. Products of combustion are toxic.		

SECTION V - REACTIVITY INFORMATION

Stable: <input checked="" type="checkbox"/>	Unstable: <input type="checkbox"/>
Precautions: Incompatibility: None known	
Hazardous Decomposition Products: Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials, and oxides of carbon and nitrogen.	
Hazardous Polymerization: Occurs: 0 Does Not Occur: X	

SECTION VI - HEALTH HAZARDS - PROTECTIVE MEASURES - FIRST AID

Inhalation: Breathing of vapors or mists may cause irritation. Wear approved organic vapor respirator in the absence of proper environmental controls. Provide ventilation and/or air circulation. Remove to fresh air. Give artificial respiration or oxygen if needed.

Skin: Based upon information available for quaternary disinfectants, it is anticipated that the material may cause irritation to skin on prolonged contact. Wear protective rubber or neoprene gloves, and other body protection as needed. Remove contaminated clothing. Flush skin thoroughly with water for 15 minutes

Eyes: Based upon information available for quaternary disinfectants, it is anticipated that the material may cause irritation to eyes on direct contact. Liquid and vapor can cause eye damage. Wear splash proof goggles where there is a potential for eye contact. Use safety glasses with side shield under normal use conditions. Flush immediately with water for 15 minutes. Get medical attention promptly if effects persist.

Protection for use solutions: The use dilution solutions of disinfectant prepared according to the current label instructions are not considered hazardous according to criteria of 29 CFR 1910.1200. However safety protection is recommended for eyes and skin when handling product concentrates.

Ingestion: Can cause mouth, throat (mucosal) and abdomen damage, with possible severe swelling of the larynx; skeletal muscle paralysis affecting the ability to breathe; circulatory shock, respiratory depression and/or convulsions. Avoid swallowing. Rinse mouth. Drink large amounts of milk, or if this is not available, lots of water. Get medical attention.

Most likely routes of entry: Skin, Eyes, Inhalation, Ingestion

Other Important Medical or Precautionary Information: None

SECTION VII - TOXICOLOGY INFORMATION

ORAL LD⁵⁰ (rat): 1850 mg/kg

DERMAL LD⁵⁰ (rabbit): 4430 mg/kg

Based upon the available animal toxicity information for a similar product, it is anticipated that the material will cause severe skin or eye irritation and/or burns and possible irreversible damage upon direct or prolonged contact.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills and Leaks: Small spills should be taken up with absorbent material and held for disposal, or, if local regulations permit, flushed into drains with lots of water. Larger spills should be contained by dike or other methods and put into containers for disposal or reuse.

Storage and Handling: Check daily for any leaks from containers, vessels, pumps, and piping. Keep away from drinking water and foods. Do not contaminate food, drinking water or feed by storage or disposal. Dispose of any contaminated food. Store at temperatures below 140o F. and keep containers closed until used.

Waste Disposal: Small amounts may be flushed into drains with lots of water if local regulations permit. Larger amounts should be sent to licensed incineration or other treatment and disposal facility.

Empty Containers: Triple-rinse before handling and disposal. Do not re-use containers. Observe label precautions.

Other Precautions: None

SECTION IX - REGULATORY INFORMATION

This is an EPA registered pesticide. The material should only be used commercially in the EPA registered applications noted on the label. The ingredients of the product are found in U.S. EPA TSCA inventory.

Reportable for SARA Title III, S.313 (Form R): None

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