

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.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)
MicroKlenz

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Medline Industries, Inc.	Emergency Telephone Number 1-800-MEDLINE
Address (Number, Street, City, State, and ZIP Code) One Medline Place	Telephone Number for Information 1-800-MEDLINE
Mundelin, IL 60060	Date Prepared January 18, 2002
	Signature of Preparer (optional)

Section II ---- Hazardous ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Active Ingredient: Benzethonium Chloride (CAS# 121-54-0)				
LD50: Approximately 420 mg/kg (Rat)				
Quantity/container: Approximately 200 mg				
LD50 in man: Approximately 4.2 g/70 kg (Body wt.)				
SAFETY FACTOR: Approximately 21				

Section III ---- Physical/Chemical Characteristics

Boiling Point	212* F	Specific Gravity (H ₂ O = 1)	1.00
Vapor Pressure (mm Hg.)	25 mm Hg	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Complete		
Appearance and Odor	Clear liquid / slight soapy odor		

Section IV ---- Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media Water, CO2, Foam, Dry Chemical			
Special Fire Fighting Procedures None Required			
Unusual Fire and Explosion Hazards None			

Section V ---- Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Inhaling spray, spraying in eyes

Incompatibility (Materials to Avoid) Soaps/detergents deactivate: no hazard results

Hazardous Decomposition or Byproducts Carbon monoxide, nitrogen oxides, hydrogen chloride (if heated)

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	None

Section VI ---- Health Hazard Data

Route(s) of Entry: Inhalation? Yes No Skin? Yes No Ingestion? Yes No

Health Hazards (Acute and Chronic) May cause cronic irritation to skin and irritation to eyes. Inhalation may be irritating to mucous membranes. If ingested in large quantities may cause vomiting, collapse, convulsions and/or coma.

Carcinogenicity: No NTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure Components 5% aqueous solution; dominant component is a sugar (Mannitol)
no symptoms other than those above

Medical Conditions Generally Aggravated by Exposure None

Emergency and First Aid Procedures Flush with water

Section VII ---- Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled No special requirements

Waste Disposal Method Dispose in accordance with Federal and State laws. Sample is not hazardous waste.

Precautions to be Taken in Handling and Storing None

Other Precautions None

Section VIII ---- Control Measures

Respiratory Protection (Specify Type)			
None			
Ventilation	Local Exhaust	None	Special None
	Mechanical (General)	None	Other None
Protective Gloves		None required	Eye Protection Only for large spray releases
Other Protective Clothing or Equipment None required			
Work/Hygienic Practices Safe manufacturing/laboratory procedures			