

Milban 1-2-3

SECTION I

HARVARD CHEMICAL RESEARCH
3595 Zip Industrial Blvd
ATLANTA, GA 30321

Date: 10/17/11

Phone:

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HEALTH	1	0=Least
FLAMMABILITY	1	1=Slight
REACTIVITY	0	2=Moderate
		3=High
		4=Extreme

SECTION II HAZARDOUS INGREDIENTS/INFORMATION

HAZARDOUS COMPONENTS	CAS#	OSHA / PEL	ACGIH / TLV	OTHER / STEL
Octyl Decyl Dimethyl Ammonium Chloride	32426-11-2			1.627%
Didecyl Dimethyl Ammonium Chloride	7173-51-5			0.814%
Dioctyl Dimethyl Ammonium Chloride	5538-94-3			0.814%
Alkyl (50%C14, 40%C12, 10%C16)	68424-85-1			2.170%
Dimethyl benzyl ammonium chloride				94.575
Inert Ingredients				

SECTION III -PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 212°F	Appearance and odor: Clear liquid with pleasant odor.
Vapor Pressure (mm Hg): ND	Specific Gravity (H2O=1): 1.00
Vapor Density (Air=1): >1	Melting Point: ND
Solubility in Water: COMPLETE	Evaporation Rate:(Butyl Acetate=1) <1

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):NONE Flammable Limits:LEL: N/A UEL: N/A
Extinguishing Media: Carbon dioxide, dry chemical, or alcohol foam.
Special Fire Fighting Procedures: NONE
Explosion Hazards: NONE

SECTION V-REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Oxidizers or strong acids.
Hazardous Decomposition or Byproducts: Heat, carbon dioxide, carbon monoxide, hydrogen chloride
Hazardous Polymerization: Will not occur.

SECTION VI-HEALTH HAZARD DATA

Health Hazards (Acute and Chronic): NONE KNOWN
Routes of Entry, Signs of Exposure, and Symptoms of Exposure:
SKIN and EYES: Severe irritant to eyes.
INHALATION: Irritation and difficulty in breathing
INGESTION: Gastric pain and vomiting.
Medical Conditions Generally Aggravated by Exposure: Unknown
Carcinogenic: NONE
Emergency and First Aid Procedures:
SKIN & EYE CONTACT: Rinse skin with clear water. For eye contact immediately flush with clear running water for 15 minutes. Get medical attention.
INHALATION: Remove to fresh air. If breathing does not return to normal, get medical attention.
INGESTION: Immediately drink large quantities of water. Get medical attention.

SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

SPILLS: Small spills mop up and flush away, large spills should be contained and moved to container for disposal .
Handling and Storing: Keep container closed when not in use. Do not freeze. Follow label instructions.
Other Precautions: Keep this and all chemicals out of the reach of children.

SECTION VIII-CONTROL MEASURES

Respiratory Protection (Specify Type): For exposure above established limits (see section II) use NIOSH/MSMA approved dust/mist mask.
Ventilation: Mechanical: Recommended.
Protective Gloves: Rubber or neoprene.
Eye Protection: Chemical goggles with side shields.
Other Protective Clothing or Equipment: Drenching safety shower and eye wash station.

SECTION IX-ADDITIONAL INFORMATION