

MATERIAL SAFETY DATA SHEET

4/29/99

Identity: Microcide SQ™

EPA Registration 61178-1-70391

Section I

Manufacturers Name:

GLOBAL BIOTECHNOLOGIES, INC.
54 YORK STREET SUITE 1B
PORTLAND, MAINE 04107

Emergency Phone Number Evenings and Weekends
207-799-8420

Section II - Hazardous Ingredients/Identity Information

Hazardous Components

(Specific Chemical Identity; Common Name(s))

- | | CAS NO. |
|--|------------|
| 1. Dual-Quaternary Ammonium Compound | |
| Alkyl (60% C ₁₄ ,30% C ₁₆ , 5% C ₁₂ ,5% C ₁₈) dimethyl benzyl ammonium chloride | 68391-01-5 |
| Alkyl (68% C ₁₂ ,32% C ₁₄) dimethyl ethylbenzyl ammonium chloride | 68956-79-6 |
| 2. Ethyl Alcohol 3% | |
| OSHA PEL: 1000 ppm | |
| ACGIH TLV : 1000 ppm | |

Section III - Physical/Chemical Characteristics

Boiling Point: 212° F

Specific Gravity (H₂O = 1): 0.9915

Vapor Pressure (mm Hg.): 22.3 mm Hg

Melting Point: Not applicable

Vapor Density (Air + 1): 0.02 lb/ft³

Concentrate pH: 10.57

Evaporation Rate (Butyl Acetate +1): 0.4

Solubility in Water: Completely miscible

Appearance and Odor: Water white sudsy liquid, slightly pungent. 1:64 dilution has no odor.

Section IV - Fire and Explosion Hazard Data

Stable (X) Not Stable ()

Conditions to Avoid: None Known

Incompatibility (Materials to Avoid): None Known

Hazardous Decomposition of Byproducts: None Known.

Section V - Reactivity Data

Flash Point (Method Used): None. Non-Flammable
Extinguishing Media: None. Non-Flammable
Special Fire Fighting Procedures: None. Non-Flammable
Unusual Fire and Explosion Hazards: None. Non-Flammable

Section VI - Health Hazard Data

Most likely route(s) of entry: Eye and skin

Ingestion: (only if swallowed)

Health Hazards (Acute and Chronic)

For liquid concentrate directly taken from the bottle :

- oral LD50 (rat): > 5g/kg (Equiv. to 150lb adult swallowing .75lb of concentrate).
- dermal LD50 (rabbit) : > 2.0g/kg.
- skin irritation (rabbit) : Not corrosive. Direct contact can cause transient swelling/redness.
- eye irritation (rabbit) : 0.1 ml. applied to eye may produce transient eye irritation,
- Not a skin sensitizer in guinea pigs when used by the Buehler sensitization contact allergy method.

Carcinogenicity: The product is not considered a carcinogen by OSHA, NTP or IARC.

OSHA Regulated: Not listed.

Signs and Symptoms of Exposure

- Inhalation: Solvent vapors or mists of product may cause irritation to mucous membranes. Material is intended for application by pump spray.

Medical Conditions Generally Aggravated by Exposure: Not known

Emergency First Aid Procedures

Eyes: Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to insure rinsing of the entire surface of the eye and lids with water. If physician not available, flush for an additional 15 minutes.

Skin: Immediately wipe away excess material with a dry cloth. Wash affected areas thoroughly with large amounts of water, and soap if available, for at least 15 minutes.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

Caution: floors may become slippery. For large spills, wear appropriate protective clothing and like for recovery or disposal. For small spills, use absorption material and place in compatible chemical container for disposal.

Waste Disposal Method:

Dispose of in compliance with all federal, state and local laws and regulations.

Precautions to be Taken in Handling and Storing:

Store upright, indoors in a clean, organized area. Make sure that seals are firmly closed.

Section VIII - Control Measures

Respiratory Protection (Specify type)

Note: The product is not administered as a vapor or aerosol.

Ventilation: No special precautions unless aerosolization is made to occur.

Protective Gloves: Rubber or Neoprene

Eye Protection: Chemical goggles or face shield.

Other Protective Clothing or Equipment: Protective clothing, eye wash, safety shower.

Section IX - Other Remarks

1. This product is intended for use as a cleaner, deodorizer and disinfectant of hard, non-porous environmental surfaces, floors, toilet bowls, etc. The product label should be consulted for directions for use.
2. This product does not require hazard communication labeling since it is a pesticide subject to the labeling requirements of the Federal Insecticide, Fungicide and Rodenticide Act and labeling regulations issued under the Act by the U.S. Environmental Protection Agency.