1. **PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Microcide SQ  
**GENERAL USE:** Disinfectant, Virucide, Fungicide  
**PRODUCT DESCRIPTION:** Disinfectant

**Manufacturer:**  
Global Biotechnologies, Inc.  
19 Rigby Road  
Scarborough, Maine 040784  
E-Mail: sales@globalbio.com  
Customer Service: 800-755-8420

**24 HR. EMERGENCY TELEPHONE NUMBERS**  
207-799-8420  
207-233-8420

**EPA REG. NO:** 10324-59-70391

2. **HAZARDS IDENTIFICATION**

**GHS LABEL**

![Exclamation mark]

**SIGNAL WORD:** DANGER

**HAZARD STATEMENTS**

- H314: Causes severe skin burns and eye damage.
- H302: Harmful if swallowed.
- H401: Toxic to aquatic life.

**EMERGENCY OVERVIEW**

- **PHYSICAL APPEARANCE:** Purple liquid, characteristic odor.
- **IMMEDIATE CONCERNS:** Causes irreversible eye damage and skin burns.

**POTENTIAL HEALTH EFFECTS**

- **EYES:** Corrosive to the eyes and may cause severe damage including blindness.
- **SKIN:** Contact causes severe skin irritation and possible burns.
- **SKIN ABSORPTION:** Not Established
- **INGESTION:** Although of moderate to low toxicity, ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea, and possible death.
- **INHALATION:** Mist is irritating to nose, throat and lungs.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

- **ACUTE TOXICITY:** Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.
- **CHRONIC EFFECTS:** None known.
- **CARCINOGENICITY:** Not Established
- **MUTAGENICITY:** None known.

**REPRODUCTIVE TOXICITY**
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt%</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Alkyl dimethyl benzyl ammonium chloride (C12-C18)</td>
<td>2.37</td>
<td>68391-01-5</td>
</tr>
<tr>
<td>N-alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-C14)</td>
<td>2.37</td>
<td>68956-79-6</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician. **INHALATION:** Remove victim to fresh air and monitor. Seek medical advice if irritation persists.

**NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** None

**HAZARDOUS COMBUSTION PRODUCTS:** Not Established

**EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not Established

6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**LARGE SPILL:** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

**ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Avoid discharges into open waterways.

**LAND SPILL:** Avoid discharge to soil.

**AIR SPILL:** NA = Not Applicable

**GENERAL PROCEDURES:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. ABsorb with dry earth, sand or other noncombustible material and transfer to containers.

7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Store containers away from children. Close container after use.

**HANDLING:** Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities. **STORAGE:** Store in area inaccessible to children.

**STORAGE TEMPERATURE:** Store at ambient temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Chemical splash googles, full face-shield.

**SKIN:** Rubber or other chemical resistant gloves. Rubber boots of used on floors. Chemical resistant outerwear (tyvek) if contact with spray or mist is anticipated.

**RESPIRATORY:** Where danger of mist contact may occur, wear NIOSH approved respiratory protection for mists. **PROTECTIVE CLOTHING:** None Expected.
WORK HYGIENIC PRACTICES: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Mild, pleasant
COLOR: Yellow or Clear
pH: 11.5 to 12.5
FLASH POINT AND METHOD: NA = Not Applicable
FLAMMABLE LIMITS: NA = Not Applicable
VAPOR PRESSURE: 20
VAPOR DENSITY: ~ 1
BOILING POINT: 212o F; 100o C
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: ~ 1
DENSITY: 8.66
SPECIFIC GRAVITY: 1.039 grams/ml.
VISCOITY: Water thin.

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Oxidizing materials.
HAZARDOUS DECOMPOSITION PRODUCTS: Not Established
INCOMPATIBLE MATERIALS: Strong acids, oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ORAL LD50 (rat)</th>
<th>DERMAL LD50 (rabbit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Alkyl dimethyl benzyl ammonium chloride (C12-C18)</td>
<td>&gt; 1890 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>N-alkyl Dimethyl Ethyl Benzyl Ammonium Chloride (C12-C14)</td>
<td>&gt; 500</td>
<td>&gt; 2000</td>
</tr>
</tbody>
</table>

DERMAL LD50: > 2000 mg/kg male and female rabbits.
ORAL LD50: > 1890 mg/kg Male and Female rats.
EYE EFFECTS: Corrosive to eyes. Permanent damage may occur.
SKIN EFFECTS: Severe skin irritant. May cause burns to skin.

CARCINOGENICITY

IARC: None known.
OSHA: None known.
SENSITIZATION: Not Available
REPRODUCTIVE EFFECTS: None known.
TARGET ORGANS: None known.
TERATOGENIC EFFECTS: Not Available
MUTAGENICITY: Not Available
12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Available
ECOTOXICOLOGICAL INFORMATION: No known significant effects or critical hazards noted. BIOACCUMULATION/ACCUMULATION: Not Available
AQUATIC TOXICITY (ACUTE): Not Established

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Although not a hazardous waste, the discarding or disposal of this material should be done at a properly permitted facility in accordance with the regulations 40CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
  PROPER SHIPPING NAME: Not regulated.
ROAD AND RAIL (ADR/RID)
  PROPER SHIPPING NAME: Not regulated.
AIR (ICAO/IATA)
  SHIPPING NAME: Not regulated.
VESSEL (IMO/IMDG)
  SHIPPING NAME: Not regulated.
CANADA TRANSPORT OF DANGEROUS GOODS
  SHIPPING NAME: Not regulated.

15. REGULATORY INFORMATION

UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
  311/312 HAZARD CATEGORIES: Health - Acute
  REACTIVITY: Yes
  313 REPORTABLE INGREDIENTS: No products were found.
302/304 EMERGENCY PLANNING
  EMERGENCY PLAN: No products were found.
CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
  CERCLA REGULATORY: None
TSCA (TOXIC SUBSTANCE CONTROL ACT)

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</tr>
</tbody>
</table>
TSCA REGULATORY: All ingredients are listed on the TSCA Chemical Inventory.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
  29 CFR1910.119—PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: No products were found.
CARCINOGEN: No products were found.
FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): Regulated

16. OTHER INFORMATION
**HMI S RATING**

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>3</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>B</td>
</tr>
</tbody>
</table>

**NFPA CODES**

![NFPA Code Diagram]

**MANUFACTURER DISCLAIMER:** This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.

Approval: A. Robert Bogosian, Ph.D.