Material Safety Data Sheet – BACTIBARRIER DETERGENT/DISINFECTANT

BactiBarrier
1244 Ritchie Highway, Suite 14
Arnold, MD 21012

MATERIAL SAFETY DATA SHEET – BACTIBARRIER DETERGENT/DISINFECTANT (Dilution : 2oz. per gallon)

Section 1: Product & Company Identification

Trade Name: BACTIBARRIER DETERGENT/DISINFECTANT (Diluted)
EPA Reg. No. 10324-59
Product Class: Quaternary Ammonium Compound
Product Use: Disinfectant/Sanitizer
Manufacturer: Mason Chemical Company
721 W. Algonquin Rd.
Arlington Heights, IL 60005
Telephone Numbers:
- 24 hr. Emergency Assistance: Chemtrec 1-800-424-9300 or 1-703-527-3887
- Product or Company Information: 1-847-290-1621 (Mon – Fri)

Section 2: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl dimethyl benzyl ammonium chloride (C_{12-18})</td>
<td>68391-01-5</td>
<td>0.01 – 0.03</td>
</tr>
<tr>
<td>Alkyl dimethyl ethyl benzyl ammonium chloride (C_{12-14})</td>
<td>85409-23-0</td>
<td>0.01 – 0.03</td>
</tr>
</tbody>
</table>

Section 3: Hazards Identification

Emergency Overview: Clear, colorless to straw colored liquid. Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.

Potential Health Effects:
- Skin: May be mildly irritating. Very large exposure may be harmful.
- Eyes: May cause irritation.
- Inhalation: Mists and vapors may be mildly irritating to the throat and respiratory tract.
- Ingestion: Harmful if swallowed.
- Chronic: None

Section 4: First Aid Measures

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. If irritation persists, get medical attention.

Skin: Flush immediately with plenty of water. If irritation persists, get medical attention.

Inhalation: If breathing is affected, remove to fresh air. Get medical attention.

Ingestion: Immediately drink one cupful of water or milk. Get medical attention.

Aggravated Medical Conditions: Persons with pre-existing skin disorders may be more susceptible to irritating effects.

Section 5: Fire Fighting Measures

Flash Point: None when heated to 100°C – Cleveland Open Cup
Upper & Lower Flame Limits: Not determined.
Extinguishing Media: Any agent suitable for surrounding fire.
Fire Fighting Equipment & Instructions:
- Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.
- Hazardous Combustion Products:
  - Irritating and toxic gases or fumes may be released during a fire.
Unusual Fire Explosion Hazards: Combustion products are toxic.

Section 6: Accidental Release Measures
**Section 7: Storage & Handling**

**Handling Procedures:** Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

**Storage Procedures:** Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Prevent electrostatic charge buildup by using common bonding and grounding techniques.

**Section 8: Exposure Controls/Personal Protection**

**Engineering Controls:** No special ventilation requirements. General room ventilation is adequate.

**Personal Protective Equipment:**
- **Eyes/Face:** Safety glasses with side-shields if splashing is likely
- **Hand Protection:** No special requirements under normal use conditions
- **Skin and body:** No special requirements under normal use conditions
- **Respiratory:** No special requirements under normal use conditions
- **Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice
- **General:** Eye wash fountain and emergency showers are recommended.

The following ingredients have established exposure guidelines:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Exposure Guideline</th>
<th>Guideline Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ingredients listed in this section.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All TWAs are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.

**Section 9: Physical & Chemical Properties**

- **Flash Point:** None when heated to 100°C – Cleveland Open Cup
- **Specific Gravity:** 1.00 (~8.34lbs/gal)
- **Percent Volatiles:** Not determined
- **Vapor Pressure:** Not determined
- **VOC Content:** Not determined
- **Vapor Density:** Estimated to be heavier than air
- **Viscosity:** 2.035 mm²/s (cSt) @ 24°C
- **Evaporation Rate:** Not determined
- **Pour Point:** Not determined
- **pH:** 7 - 9
- **Appearance and Odor:** Clear, colorless to straw colored liquid with benzaldehyde (organic) odor

**Section 10: Stability & Reactivity**

- **Chemical Stability:** Material is stable.
- **Conditions to Avoid:** Keep away from heat and strong oxidizing agents.
- **Incompatibilities:** Strong oxidizing agents (may result in fire.), reducing agents.
- **Hazardous Decomposition:** Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.
- **Hazardous Polymerization:** Will not occur.

**Section 11: Toxicological Information**

- **Carcinogenicity:** No Carcinogenicity data available for this product.
- **Acute Oral LD50:** > 5000 mg/kg in male and female rats
Acute Dermal LD50 > 2,000 mg/kg in male and female rabbits
Primary Skin Category IV
Primary Eye Category IV

Chemicals Ingredients Listed as Potential or Known Carcinogens

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA</th>
<th>NTP</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ingredients listed in this section.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 12: Ecological Information

Ecotoxicity Very Toxic to aquatic organisms
Information available upon request. Please contact Mason Chemical Company Technical Service Department.

Environmental Fate
This product is biodegradable

Section 13: Disposal Considerations

Disposal Instructions
Although not considered a hazardous waste, the discarding or disposal of this material should be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

Section 14: Transport Information

DOT Hazard Class Non-Hazardous,
DOT Proper Shipping Name Not Applicable

Section 15: Regulatory Information

TSCA Status
This product is regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.

Other Chemical Inventories
All components of this product are listed on the following inventories: China and European Union,. One or more ingredients are not listed on the following inventories: Australia, Canada, Japan, Korean and Philippines

CERCLISARA

SARA Title III, Sections 311/312 – This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370:
Classification of this product: Immediate, Fire

SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Maximum Concentration</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ingredients listed in this section.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs). SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Reportable Quantity (RQ)</th>
<th>Threshold Planning Quantity (TPQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ingredients listed in this section.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

State & Provincial Right to Know & Selected Regulatory Lists

The following ingredients appear on various state right to know lists and/or California’s Proposition 65 List

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>State List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Chloride (trace &lt; 10 ppm)</td>
<td>AZ, CA, CAP65C, CT, IL, MA, MN, NJ, PA, RI</td>
</tr>
</tbody>
</table>
AZ – Arizona Ambient Air Quality Guidelines  
CT – Connecticut Hazardous Air Pollutants  
CA – California Director’s List of Hazardous Substances  
CAP65C – California Prop 65 Carcinogen  
ID – Idaho Non-carcinogen Toxic Air Pollutants  
IL – Illinois Toxic Air Contaminant - Carcinogenic  
MA – Massachusetts Right to Know List  
MA – Minnesota Hazardous Substances List  
NJ – New Jersey Right to Know List  
PA – Pennsylvania Right to Know List  
RI – Rhode Island Hazardous Substances List

**WHMIS Classification:** E, D2B. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

<table>
<thead>
<tr>
<th>Section 16: Other Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Issue Date:</strong></td>
</tr>
<tr>
<td><strong>Previous Issue Date:</strong></td>
</tr>
<tr>
<td><strong>Changes from Previous Issue Date:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard Ratings</th>
<th>HMIS (II)</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PPE</td>
<td>A</td>
<td></td>
</tr>
</tbody>
</table>

**Disclaimer**

Disclaimer: Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer’s own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be held liable (regardless of fault) to the vendee’s employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.

The seller makes no warranty expressed or implied concerning the accuracy or any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.