# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

## Section 1: Product and Company Identification

**Product Name** Xmicrobe

**Manufacturer/Distributor** Xzilon, Inc
10 Pointe Dr, STE
150 Brea, Ca
92821

**Phone Numbers**

**Product Information** (612) 600-2345
**Medical Emergency** (855) 872-3746

## SECTION 2: Hazards identification

**Classification of the substance or mixture**:

Not classified for physical or health hazards under GHS.

**Hazard statements**:

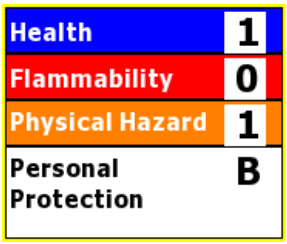
**Precautionary statements**:

If medical advice is needed, have productcontainer or label
and Read label before use

**Other Non-GHS Classification**: **WHMIS**

**NFPA/HMIS**

NFPA SCALE (0-4)




HMIS RATINGS(0-4)

## SECTION 3: Composition/information on ingredients

| Ingredients: | | |
|---|---|---|
| CAS 27668-52-6 | 3- (Trihydroxy silyl) propyldimenhyloctadecyl ammonium chloride | **0 . 5 %** |
| | | Percentages are by weight |

## SECTION 4: First aid measures

**Description of first aid measures**

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Get medical assistance if cough or other symptoms appear.

**After skincontact:** Rinse/flushexposed skin gentlyusingsoapandwaterfor15-20minutes. If needed seek medical advice if discomfort or irritation persists.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. If needed seek medical attention if irritation persists or if concerned.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:**

Irritation. headache. nausea. shortness of breath.

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention provide SDS docum ent to physician. Physician should treat symptomatically.

## SECTION 5: Firefighting measures

**Extinguishing media**

**Suitable extinguishing agents:** Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

**For safety reasons unsuitable extinguishing agents:**

**Special hazards arising from the substance or mixture:**

Thermal decomposition can lead to release of irritating gases and vapors.

**Advice for firefighters:**

**Protective equipment:** Wear protective eyewear, gloves, and clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing appa rat us.

**Additional information (precautions):** Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency prcedures:**

Ensure adequate ventilation. Ensure that air-handling systems are operational.

**Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

**Methods and material for containment and cleaning up:**

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

**Reference to other sections:**

## SECTION 7: Handling and storage

**Precautions for safe handling:**

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

**Conditions for safe storage, including any incompatibilities:**

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

## SECTION 8: Exposure controls/personal protection

**Control Parameters:** No applicable occupational exposure limits

**Appropriate Engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

**Respiratory protection:** Not required under normal conditions of use. When necessary use NIOSH approved breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation.
Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

**Eye protection:** Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

**General hygienic measures:** Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

## SECTION 9: Physical and chemical properties

| | | | |
|---|---|---|---|
| **Appearance (physical** | Clear, colorless liquid | **Explosion limit lower**: **Explosion limit upper**: | Not determined Not determined |
| **Odor**: | Mild | **Vapor pressure**: | Not determined |
| **Odor threshold**: | Not determined | **Vapor density**: | Not determined |
| **pH-value**: | Approx. 5.0 | **Relative density**: | 1 . 003 |
| **Melting/Freezing point**: | Not determined | **Solubilities**: | Material is water soluble. |
| **Boiling point/Boiling range**: | Above 210F | **Partition coefficient (n- octanol/water)**: | Not determined |
| **Flash point (closed cup)**: | Not determined | **Auto/Self-ignition temperature**: | Not determined |

| MicrobeRepel Part B | | | |
|---|---|---|---|
| **Evaporation rate**: | Not determined | **Decomposition temperature**: | Not determined |
| **Flammability (solid, gaseous)** | Not determined | **Viscosity**: | a. Kinematic: Not determined<br>b. Dynamic: Not determined |
| **Density**: Not determined | | | |

## SECTION 10: Stability and reactivity

**Reactivity:** Nonreactive under normal conditions.
**Chemical stability:** Stable under normal conditions.
**Possible hazardous reactions:** None under normal processing.
**Conditions to avoid:** Incompatible materials. Do not mix with cleaners, do not freeze, and avoid heat.
**Incompatible materials:** Sodium oxidizers
**Hazardous decomposition products:**

## SECTION 11: Toxicological information

| | |
|---|---|
| **Acute Toxicity**: No additional information. | |
| **Chronic Toxicity**: No additional information. | |
| **Corrosion Irritation**: No additional information. | |
| **Sensitization**: | No additional information. |
| **Single Target Organ (STOT)**: | No additional information. |
| **Numerical Measures**: | No additional information. |
| **Carcinogenicity**: | No additional information. |
| **Mutagenicity**: | No additional information. |
| **Reproductive Toxicity**: | No additional information. |

## SECTION 12: Ecological information

**Ecotoxicity Persistence and degradability**:
**Bioaccumulative potential**:
**Mobility in soil**:
**Other adverse effects**:

## SECTION 13: Disposal considerations

**Waste disposal recommendations**:

Contact a licensed professional waste disposal service to dispose of this material Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

## SECTION 14: Transport information

**UN-Number**

Not Regulated.

**UN proper shipping name**

Not Regulated.

**Transport hazard class(es) Packing group**: Not Regulated.

**Environmental hazard**: **Transport in bulk**:

**Special precautions for user**:

## SECTION 15: Regulatory information

**United States (USA)**

**SARA Section 311/312 (Specific toxic chemical listings)**:

None of the ingredients is listed

**SARA Section 313 (Specific toxic chemical listings)**:

None of the ingredients is listed

**RCRA (hazardous waste code)**:

None of the ingredients is listed

**TSCA(Toxic Substances Control Act)**: All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)** : None of the ingredients is listed

**Proposition 65 (California)**:

**Chemicals knownto cause cancer**:

None of the ingredients is listed

**Chemicals known to cause reproductive toxicity for females**:

None of the ingredients is listed

**Chemicals known to cause reproductive toxicity for males**: None of the ingredients is listed

**Chemicals known to cause developmental toxicity**:

None of the ingredients is listed

**Canada**

**Canadian Domestic Substances List(DSL)**: All ingredients are listed.

**Canadian NPRI Ingredient Disclosure list (limit 0.1%)**:

None of the ingredients is listed **Canadian NPRI**

**Ingredient Disclosure list (limit 1%)**:

None of the ingredients is listed

## SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the

SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material. **GHS Full Text Phrases**:

**Abbreviations and acronyms**:
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA:
National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration(REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act(USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation

**Effective date:** 10.24.2014
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