SAFETY DATA SHEET

Product name: GLUTERATE
Last revised date: 24 April 2018

1. SUBSTANCE AND SUPPLIER IDENTIFICATION

PRODUCT NAME: Gluterate
DIN: 02217902
MANUFACTURER: Germiphene Corporation
ADDRESS: 1379 Colborne Street East, Brantford, Ontario N3T 5M1, Canada
PHONE: 519-759-7100
FAX: 519-759-1625
EMERGENCY PHONE: CANUTEC 613-996-6666
PRODUCT USE: Sterilizer and high-level disinfectant

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Risk of serious damage to eyes. Harmful if swallowed. May cause skin irritation or sensitization. Vapor may cause irritation of the upper respiratory tract. Legal exposure limit to gluteraldehyde vapours is 0.2 ppm.

SYMBOL:

SIGNAL WORD: Danger

GHS Classification:

<table>
<thead>
<tr>
<th>Health</th>
<th>Environmental</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irritant: Category 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious Eye Damage: Category 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Toxicity: Category 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin sensitizer: Category 1</td>
<td></td>
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</tr>
</tbody>
</table>

Hazard Statements

H302: Harmful if swallowed
H315: Causes skin irritation
H318: Causes serious eye damage
H317: May cause an allergic skin reaction

Precautionary Statements

P261: Avoid breathing vapours.
P264: Wash thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves, eye protection, and face protection.
P301+P312: IF SWALLOWED: Call a poison center or doctor if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P339: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a Poison center or doctor if in eyes.
P332+P313: If skin irritation or rash occurs, get medical advice without delay.
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS NO</th>
<th>% WT</th>
<th>HAZARDOUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glutaraldehyde</td>
<td>111-30-8</td>
<td>2</td>
<td>yes</td>
</tr>
</tbody>
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<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>1 – 5</td>
<td>yes</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**EYES:** Wash eyes with plenty of water for at least 15 minutes. Seek medical attention.

**SKIN:** Wash with soap and water. If irritation persists, contact a physician.

**INGESTION:** Give large amounts of water. DO NOT INDUCE VOMITING. Contact physician immediately.

**INHALATION:** Remove person to fresh air. Contact a physician if difficulty in breathing persists.

5. FIREFIGHTING MEASURES

**FLAMMABILITY:** Not flammable.

**HAZARDOUS DECOMPOSITION PRODUCTS:** N/Av

6. ACCIDENTAL RELEASE MEASURES

Contain spilled material. Provide adequate ventilation. Spill should be collected in suitable containers or absorbed on a suitable absorbent material for subsequent disposal.

7. HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in a cool well-ventilated area. Keep container closed when not in use. Avoid breathing vapours. Avoid contact with eyes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**VENTILATION:** Use adequate ventilation.

**RESPIRATORY PROTECTION:** Avoid breathing vapours.

**EYE PROTECTION:** Avoid contact with eyes.
9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear, slightly yellow liquid
**ODOUR:** Characteristic, peppermint/glutarate
**PHYSICAL STATE:** Liquid
**pH @ 22 ± 1°C:** 5.0 – 6.0
**BOILING POINT:** N/Av
**MELTING POINT:** N/Av
**FREEZING POINT:** N/Av
**VAPOR PRESSURE (mmHg):** N/Av
**SPECIFIC GRAVITY @ 22 ± 1°C:** 0.90 – 1.01
**SOLUBILITY IN WATER:** Soluble

10. STABILITY AND REACTIVITY

**STABILITY:** Stable
**CONDITIONS TO AVOID (STABILITY):** Avoid contact with other chemicals.
**INCOMPATIBILITY (MATERIAL TO AVOID):** Incompatible with strong bases, strong acids, strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

**GLUTARALDEHYDE 25%**
- Oral rat LD50 134 mg kg⁻¹
- Inhalation rat LC50 480 mg/m³/4h
- Skin rabbit LD50 > 2500 mg kg⁻¹
- SKIN: rabbit 4 hr covered 2/6 with necrosis
- SKIN: rabbit 1 hr occluded minor to severe erythema and edema with necrosis, scabbing, desquamation, and alopecia
- EYE: rabbit 0.005 ml severe corneal injury, iritis, swelling and necrosis of eyelid
- EYE: rabbit 0.5ml 5% solution in water severe corneal injury, iritis, swelling and necrosis of eyelid.
- EYE: rabbit 0.5ml 1% solution in water trace corneal injury

**SENSITIZATION (ANIMAL AND HUMAN STUDIES)**
- Guinea Pig Maximization Test: intradermal injection of a 0.1% glutaraldehyde solution and topical administration of a 5% solution. Evidence of delayed contact hypersensitivity in 68% of test animals upon challenge.
- Intraperitoneal rat LD50 17.9 mg kg⁻¹
- Oral guinea pig LD50 50 mg kg⁻¹

**ISOPROPYL ALCOHOL**
- Oral rat LD50 5045 mg kg⁻¹
- Skin rabbit LD50 12800 mg kg⁻¹
- Oral mouse LD50 3600 mg kg⁻¹

12. ECOLOGICAL INFORMATION

N/Av
13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: According to state, federal, provincial, and local regulations.

14. TRANSPORT INFORMATION

Not regulated by TDG. Proper shipping name: 2% Glutaraldehyde solution.
UN HAZARD CODES: Class 8, corrosive substances

15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

Prepared by: Germiphene Technical Department
Revision date/reason: 06 May 15 / Classify product according to GHS

Disclaimer

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