SECTION 1 - PRODUCT INFORMATION

Supplier: Calgonate Corp.
2162 Reserve Park Trace
Port St Lucie, FL 34986
U.S.A.
Phone: (888) 434-3548 or +1 (772) 408-8884

Trade name: Calgonate® Calcium Gluconate Gel
Chemical name: A mixture of calcium gluconate, methylparaben and water in a gel base.
Typical product use: Topical application typically used after contact with hydrofluoric acid.
Formula number: N/A

SECTION 2 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS #</th>
<th>PIN (UN)</th>
<th>% WEIGHT</th>
<th>EXPOSURE LIMITS (route, species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Gluconate</td>
<td>299-28-5</td>
<td></td>
<td>2.5%</td>
<td>LD_{50}: 950 mg/kg (IV, rat, mouse)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LD_{50}: 2890 mg/kg (subcutaneous, rat)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TLV: 15 mg/m</td>
</tr>
<tr>
<td>Methylparaben</td>
<td>99-76-3</td>
<td>&lt;10%</td>
<td></td>
<td>LD_{50}: &gt; 7500 mg/kg (oral, rat)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LD_{50}: &gt; 8000 mg/kg (oral, mouse)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LD_{50}: 6000 mg/kg (oral, rabbit)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LD_{50}: 1200 mg/kg (subcutaneous, mouse)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LD_{50}: 500 mg/kg (subcutaneous, rat)</td>
</tr>
<tr>
<td>(Water)</td>
<td>7732-18-5</td>
<td>&gt;75%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Gel Base)</td>
<td>7732-18-5</td>
<td>&lt;10%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LD_{50} = Lethal dose in 50% of animals tested (specify route)
TLV = Threshold limit values (The amounts of chemicals in the air that almost all healthy adult workers are predicted to be able to tolerate without adverse effects averaged over an 8-hour workday / 40-hour work week.)

SECTION 3 - PHYSICAL DATA

The following physical data are approximate only and do not represent specification values. They should only be used in the context of this material safety data sheet.

| Physical state: Aqueous viscous gel | Evaporation rate (n-butyl acetate =1): N/A |
| Appearance: Colorless | Boiling point (°C): N/A |
| Odor: Isopropyl alcohol | Freezing point: N/A |
| Odor threshold: N/A | pH: 6.0-7.0 |
| Specific gravity (water =1): N/A | Coefficient of water/oil distribution: N/A |
| Vapor pressure (psig at 21°C): N/A | Solubility in water (% by weight at 20°C): N/A |
| Vapor density (air =1): N/A | % volatile by volume: N/A |
SECTION 4 - FIRE OR EXPLOSION HAZARD

**Flammability** (determined by flame projection): N/A

**Conditions of flammability:** The product contains combustible ingredients, however, as it has a high water content, the risk of combustion is considered to be very low.

**Means of extinction:** Dry chemical, CO₂, foam, water

**Flash point:** N/A  **Method used:** N/A
The flash point is the lowest temperature at which a fuel-air mixture present above the surface of a liquid will ignite if an ignition source is introduced.

**Flammable limits in air (% by volume):** Lower: N/A  Upper: N/A
The Lower Flammable Limit (or Lower Explosive Limit / LEL) is the minimum concentration of the fuel in the oxidizer (usually air) that is sufficient to allow burning to occur. Below the Lower Flammable Limit, the fuel-oxidizer mixture is too lean and no burning will occur. The Upper Flammable Limit (or Upper Explosive Limit / UEL) is the maximum concentration of the fuel in the oxidizer (usually air) that is sufficient to allow burning to occur. Above the Upper Flammable Limit, the fuel-oxidizer mixture is too rich and no burning will occur.

**Auto-ignition temperature:** N/A
The auto-ignition temperature is the minimum temperature at which a substance will ignite in the air when there is no ignition source present.

**Hazardous combustion products:** Carbon monoxide (CO) and carbon dioxide (CO₂)

**Explosion data:**
- Sensitivity to shock: N/A
- Sensitivity to static discharge: N/A

SECTION 5 - REACTIVITY DATA

**Chemical stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature (room temperature) and pressure. Avoid storage in hot, unventilated areas.

**Incompatibility:** May react with oxidizing agents and strong bases. Calcium gluconate is incompatible with clindamycin phosphate.

**Conditions of reactivity:** Avoid storage in hot, unventilated areas.

**Hazardous decomposition products (combustion):** Carbon monoxide (CO) and carbon dioxide (CO₂).

SECTION 6 - TOXICOLOGICAL PROPERTIES

**Possible routes of entry:**
- Inhalation (breathing)
- Skin/eye contact (localized irritation)
- Skin/eye absorption (systemic)
- Ingestion (systemic) - May cause gastric irritation and hypercalcemia

**Effects of acute exposure:**

**Calcium gluconate:** No negative effects expected from the low concentration in this mixture. May be irritating to skin, eyes, respiratory tract and mucous membranes. Ingestion of a large quantity may cause gastro-intestinal irritation and hypercalcemia.

**Methylparaben:** No negative effects expected from the low concentration in this mixture. May be irritating to skin, eyes, respiratory and gastro-intestinal systems. If contact with skin occurs, it may cause contact dermatitis. If ingested, it may cause a slight burning sensation. If inhaled, it might cause respiratory difficulties.

**Effects of chronic exposure:**

**Methylparaben:** Might cause hypersensitivity

<table>
<thead>
<tr>
<th>Exposure limits: N/A</th>
<th>Reproductive toxicity: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritancy of product: N/A</td>
<td>Teratogenicity: N/A</td>
</tr>
<tr>
<td>Sensitization to product: N/A</td>
<td>Mutagenicity: N/A</td>
</tr>
<tr>
<td>Carcinogenicity of product: N/A</td>
<td>Synergistic products: N/A</td>
</tr>
</tbody>
</table>
SECTION 7 - PREVENTIVE MEASURES

Recommendations listed in this section indicate the type of equipment which will provide protection against over-exposure to this product. Conditions of use, adequacy of engineering or other control measures and actual exposures will dictate the need for specific protection devices at your workplace.

PERSONAL PROTECTIVE EQUIPMENT (PPE):
Protective gloves: Not normally required
Eye protection: Not normally required
Other protective equipment: Not normally required
Ventilation: Not normally required
Specific engineering controls to be used: N/A

Steps to be taken in case material is released or spilled: Use absorbent material. Wash the area with water.

Waste disposal method: Dispose of in accordance with local, provincial and federal regulations.

Handling procedures and equipment: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature (room temperature) and pressure. Avoid contact with oxidizing agents and strong bases.

Storage requirements: This material is considered stable under normal storage temperature and pressure conditions. Store in a cool, well-ventilated area at room temperature.

Special shipping information: Avoid storage in hot, unventilated areas. Avoid contact with incompatibilities.

UN Product Identification Number (PIN) (Transportation of Dangerous Goods Act): N/A

SECTION 8 - FIRST AID MEASURES

Note: The material is expected to be applied to skin in situations where irritation and pain may already exist in the area of contact. However, if the gel is suspected of increasing the pain or discomfort, discontinue use and treat accordingly.

Inhalation: Remove patient to fresh air. Get medical attention if the person is having difficulty breathing.

Skin contact: Flush exposed skin with copious amounts of water and soap. Consult a physician if irritation develops.

Eye contact: Flush with copious amounts of water for at least 15 minutes, holding the eyes open wide. Consult a physician.

Ingestion: Wash out mouth with water, provided person is conscious. Get medical attention. Do not induce vomiting unless directed by a physician.

SECTION 9 - PREPARATION INFORMATION

The above data are offered in good faith as typical values, not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. The information contained in this form is based on data from sources considered technically reliable and has been prepared in good faith in accordance with the available material. It is provided as a service to the persons using the product but conditions of use and handling may involve other and additional considerations beyond the control of Calgonate Corp. Each user should review these recommendations in the specific context of intended use.