1 Identification
   · Product identifier
     · Trade name: Gluma Desensitizer PowerGel
     · Application of the substance / the mixture For desensitisation of teeth

   · Details of the supplier of the safety data sheet
     · Manufacturer/Supplier:
       Kulzer GmbH
       Leipziger Straße 2, 63450 Hanau (Germany)
       Tel.: +49 (0)800 4372522

     · Information department:
       Tel. +1 (800) 431-1785  Fax: +1 (800) 522-1545
       e-mail: customer.servicehkna@kulzer-dental.com
     · Emergency telephone number:
       Emergency CONTACT (24-Hour-Number)
       GBK/Infotrac ID: 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification
   · Classification of the substance or mixture
     Flammable Liquids - Category 4 H227 Combustible liquid.
     Skin Irritation - Category 2 H315 Causes skin irritation.
     Serious Eye Damage - Category 1 H318 Causes serious eye damage.
     Respiratory Sensitizer - Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
     Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

   · Label elements
     · GHS label elements
       The product is classified and labeled according to the Globally Harmonized System (GHS).
     · Hazard pictograms
       GHS05  GHS08

     · Signal word Danger

     · Hazard-determining components of labeling:
       2-hydroxyethyl methacrylate
       glutaral

     · Hazard statements
       Combustible liquid.
       Causes skin irritation.
       Causes serious eye damage.
       May cause allergy or asthma symptoms or breathing difficulties if inhaled.
       May cause an allergic skin reaction.

     · Precautionary statements
       Avoid breathing dust/fume/gas/mist/ vapours/spray.
       Wear protective gloves/protective clothing/eye protection/face protection.
       In case of inadequate ventilation wear respiratory protection.
       IF INHALED: Remove person to fresh air and keep comfortable for breathing.
       IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
       Specific treatment (see on this label).
Trade name: **Gluma Desensitizer PowerGel**

- **Hazard description:**
  - **Canadian Hazard Symbols**
    - B3 - Combustible liquid
    - D2A - Very toxic material causing other toxic effects

- **Classification system**
  - **NFPA ratings for USA (scale 0-4)**
    - Health = 3
    - Fire = 2
    - Reactivity = 0
  - **HMIS-Ratings (Scale 0-4)**
    - Health = *3
    - Fire = 2
    - Reactivity = 0

- **Other hazards**

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
  - **Dangerous components:**
    - 868-77-9 2-hydroxyethyl methacrylate
      - Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317
      - 25-50% w/w
    - 111-30-8 glutaraldehyde
      - Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Inhalation) - Category 3, H331; Respiratory Sensitizer - Category 1, H334; Skin Corrosion - Category 1B, H314; Skin Sensitizer - Category 1, H317; Flammable Liquids - Category 4, H227
      - 0-5% w/w

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid information

- **Description of first aid measures**
  - **After inhalation** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact**
    - Immediately rinse with water.
    - If skin irritation continues, consult a doctor.
  - **After eye contact**
    - Rinse opened eye for several minutes under running water. Then consult a doctor.
  - **After swallowing**
    - Rinse out mouth and then drink plenty of water.
    - If symptoms persist consult doctor.

- **Information for doctor**
  - **Most important symptoms and effects, both acute and delayed**
    - No further relevant information available.
Trade name: Gluma Desensitizer PowerGel

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents
    CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture
  Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
  - Protective equipment: Mount respiratory protective device.
  - Additional information -

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:
  Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).
  Dispose contaminated material as waste according to item 13.
  Send for recovery or disposal in suitable receptacles.
- Reference to other sections
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Handling
  - Precautions for safe handling
    Wear protective equipment. Keep unprotected persons away.
    Keep receptacles tightly sealed.
    Ensure good ventilation/exhaustion at the workplace.
    Please observe the additional instructions in the product's instructions for use.
  - Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
  - Storage
    - Requirements to be met by storerooms and receptacles: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions: None.
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
**Trade name:** Gluma Desensitizer PowerGel

### Control parameters

#### Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>EL</th>
<th>Short-term value: C 0.05 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>activated and inactivated</td>
</tr>
</tbody>
</table>

#### Additional information: The lists that were valid during the creation were used as basis.

### Exposure controls

#### Personal protective equipment

**General protective and hygienic measures**
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

**Breathing equipment:**
- Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

**Protection of hands:**
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.
- Solvent resistant gloves.
- Check protective gloves prior to each use for their proper condition.

**Material of gloves**
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
- Butyl rubber, BR
- Nitrile rubber, NBR

**Eye protection:**
- Before use, put on the protective goggles and cover the patient´s eyes to protect against splashes of material.

**Body protection:** Light weight protective clothing

### 9 Physical and chemical properties

#### Information on basic physical and chemical properties

**General Information**

- **Appearance:**
  - **Form:** Viscous
Trade name: Gluma Desensitizer PowerGel

- Color: Green
- Odor: Aromatic
- Odor threshold: Not determined.
- pH-value at 20 °C (68 °F): 3.66
- Change in condition
  - Melting point/Melting range: Not applicable
  - Boiling point/Boiling range: 100 °C (212 °F)
- Flash point: Not applicable
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature:
  - Decomposition temperature: Not determined.
- Auto igniting: Product is not self-igniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapor pressure: Not determined.
- Density at 20 °C (68 °F):
  - Relative density: Not determined.
  - Vapor density: Not determined.
  - Evaporation rate: Not determined.
- Solubility in / Miscibility with
  - Water: Partly soluble
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - dynamic: Not determined.
  - kinematic: Not determined.
- Other information: No further relevant information available.

10 Stability and reactivity
- Reactivity: No further relevant information available.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: none
- Additional information: -

11 Toxicological information
- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    - Oral LD50 >2,000 mg/kg (rat)
Trade name: Gluma Desensitizer PowerGel

---

### 868-77-9 2-hydroxyethyl methacrylate

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Sensitization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt;5,000 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;3,000 mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

**Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

**Additional toxicological information:**
- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - 128-37-0 2,6-di-tert-butyl-p-cresol
      - Sensib.
  - **NTP (National Toxicology Program)**
    - None of the ingredients is listed.

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### 12 Ecological information

**Toxicity**

**Aquatic toxicity:**

<table>
<thead>
<tr>
<th>868-77-9 2-hydroxyethyl methacrylate</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50/72h EC50/48h (static) LC50/96h</td>
</tr>
<tr>
<td>836 mg/l (algae) (OECD 201) 380 mg/l (daphnia) (OECD 202 Teil 1) &gt;100 mg/l (fish)</td>
</tr>
</tbody>
</table>

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**
- **Biodegradative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

**Additional ecological information:**
- **General notes:**
  - Avoid transfer into the environment.
  - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  - Danger to drinking water if even extremely small quantities leak into the ground.

**Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

---

### 13 Disposal considerations

**Waste treatment methods**
- **Recommendation**
  - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
14 Transport information

- **UN-Number**
  - DOT, TDG, ADN, IMDG, IATA: Void

- **UN proper shipping name**
  - DOT, TDG, ADN, IMDG, IATA: Void

- **Transport hazard class(es)**
  - DOT, TDG, ADN, IMDG, IATA: Void

- **Packing group**
  - DOT, TDG, IMDG, IATA: Void

- **Environmental hazards:**
  - Marine pollutant: No

- **Special precautions for user**
  - Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**
  - Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - SARA
    - SARA Section 355 (extremely hazardous substances)
      - None of the ingredients is listed.

- **Chemical safety assessment:**
  - A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H227 Combustible liquid.
  - H301 Toxic if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H331 Toxic if inhaled.
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- **Date of preparation / last revision**
  - 10/25/2018 / 3

- **Abbreviations and acronyms:**
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation

(Contd. of page 6)
**Trade name:** Gluma Desensitizer PowerGel

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (division of the American Chemical Society)</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Association (USA)</td>
</tr>
<tr>
<td>HMIS</td>
<td>Hazardous Materials Identification System (USA)</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System (Canada)</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal concentration, 50 percent</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal dose, 50 percent</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
</tbody>
</table>

* Data compared to the previous version altered.