1 Identification

- **Product identifier**
  - **Trade name:** Gluma Desensitizer PowerGel

- **Relevant identified uses of the substance or mixture and uses advised against**
  - No further relevant information available.
  - **Application of the substance / the mixture** For desensitisation of teeth

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Kulzer Australia Pty Ltd
    11 – 21 Underwood Rd
    HOMEBUSHE NSW 2140
    Australia  Tel: +61 (0) 2 9764 5222
  - **Informing department:** see above
  - **Emergency telephone number:** Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

2 Hazard(s) Identification

- **Classification of the substance or mixture**
  - Flam. Liq. 4  H227 Combustible liquid.
  - Skin Irrit. 2  H315 Causes skin irritation.
  - Eye Dam. 1  H318 Causes serious eye damage.
  - Resp. Sens. 1  H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - Skin Sens. 1  H317 May cause an allergic skin reaction.

- **Label elements**
  - **GHS label elements**
    The product is classified and labelled according to the Globally Harmonised System (GHS).
  - **Hazard pictograms**
    GHS05  GHS08
  - **Signal word** Danger
  - **Hazard-determining components of labelling:**
    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.

(Contd. on page 2)
Safety Data Sheet
according to WHS Regulations

Printing date 25.10.2018
Version number 4
Revision: 25.10.2018

Trade name: Gluma Desensitizer PowerGel

(Contd. of page 1)

IF INHALED: Remove victim to fresh air and keep at rest in a position 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).

- Other hazards -
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

3 Composition and Information on Ingredients

- Chemical characterisation: Mixtures

<table>
<thead>
<tr>
<th></th>
<th>CAS: 868-77-9</th>
<th>EINECS: 212-782-2</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous components:</td>
<td>2-hydroxyethyl methacrylate</td>
<td>Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317</td>
<td>25-50%</td>
</tr>
<tr>
<td></td>
<td>CAS: 111-30-8</td>
<td>EINECS: 203-856-5</td>
<td>Percentage</td>
</tr>
<tr>
<td></td>
<td>glutaral</td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H331; Resp. Sens. 1, H334; Skin Corr. 1B, H314; Skin Sens. 1, H317; Flam. Liq. 4, H227</td>
<td>0-5%</td>
</tr>
</tbody>
</table>

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

4 First Aid Measures

- Description of first aid measures
  - After inhalation Supply fresh air; consult doctor in case of symptoms.
  - After skin contact
    Instantly rinse with water.
    If skin irritation continues, consult a doctor.
  - After eye contact
    Rinse opened eye for several minutes under running water. Then consult doctor.
  - After swallowing
    Rinse out mouth and then drink plenty of water.
    In case of persistent symptoms consult doctor.
- Information for doctor
  - Most important symptoms and effects, both acute and delayed
    No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire Fighting Measures

- Extinguishing media
  - Suitable extinguishing agents
    CO2, extinguishing powder or water jet. Fight larger fires with water jet 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: Put on breathing apparatus.
- Additional information -

(Contd. on page 3)
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 of contaminated material as waste according to item 13.
  Send for recovery or disposal in suitable containers.
- Reference to other sections
  See Section 8 for information on personal protection equipment.
  See Section 13 for information on disposal.

7 Handling and Storage

- Handling
  - Precautions for safe handling
    Wear protective equipment. Keep unprotected persons away.
    Keep containers 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 containers: 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 and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters

  Components with critical values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>NES (Australia)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.41* mg/m³, 0.1 ppm</td>
<td>Short-term value: C 0.8 mg/m³, C 0.2 ppm</td>
<td>Short-term value: C 0.2 mg/m³, C 0.05 ppm</td>
</tr>
<tr>
<td></td>
<td>Sen;*Peak limitation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>111-30-8 glutaral</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the compilation were used as basis.

- Exposure controls
  - Personal protective equipment
    - General protective and hygienic measures
      Keep away from foodstuffs, beverages and food.
      Instantly remove any soiled and impregnated garments.
      Wash hands during breaks and at the end of the work.
      Do not inhale gases / fumes / aerosols.
      Avoid contact with the eyes and skin.
\textbf{Trade name:} Gluma Desensitizer PowerGel

\begin{itemize}
  \item \textbf{Breathing equipment:}
    Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).
  \item \textbf{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.

  \item \textbf{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.

  \item \textbf{Penetration time of glove material}
    The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

  \item \textbf{Eye protection:}
    Before use, put on the protective goggles and cover the patient’s eyes to protect against splashes of material.

  \item \textbf{Body protection:}
    Light weight protective clothing
\end{itemize}

\section*{9 Physical and Chemical Properties}

\begin{itemize}
  \item \textbf{Information on basic physical and chemical properties}
    \begin{itemize}
      \item \textbf{General Information}
        \begin{itemize}
          \item Form: Viscous
          \item Colour: Green
          \item Smell: Aromatic
          \item Odour threshold: Not determined.
        \end{itemize}
      \item pH-value at 20 °C: \textbf{3,66}
      \item Change in condition
        \begin{itemize}
          \item Melting point/freezing point: Not applicable
          \item Initial boiling point and boiling range: 100 °C
        \end{itemize}
      \item Flash point: Not applicable
      \item Inflammability (solid, gaseous) Not applicable.
      \item Ignition temperature: Not determined.
      \item Decomposition temperature: Not determined.
      \item Self-inflammability: Product is not selfigniting.
      \item Explosive properties: Product is not explosive.
    \end{itemize}
\end{itemize}
### 45.3 Critical values for explosion:
- **Lower:** Not determined.
- **Upper:** Not determined.

### 45.4 Steam pressure:
- Not determined.

### 45.5 Density at 20 °C
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.

### 45.6 Solubility in / Miscibility with
- **Water:** Partly soluble

### 45.7 Partition coefficient: n-octanol/water:
- Not determined.

### 45.8 Viscosity:
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

### 45.9 Other information
- No further relevant information available.

#### 10 Stability and Reactivity
- **Reactivity:** No further relevant information available.
- **Chemical stability:**
  - **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **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:**
    | Route   | LD50/ LC50 |
    |---------|-----------|
    | Oral    | >2,000 mg/kg (rat) |

**868-77-9 2-hydroxyethyl methacrylate**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/ LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt;5,000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;3,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Sensitisation</td>
<td>Sensib. (guinea pig)</td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - **Skin corrosin/irritation** Irritant for skin and mucous membranes.
  - **Serious eye damage/irritation** Strong irritant with the danger of severe eye injury.
  - **Respiratory or skin sensitisation** No sensitizing effect known.
  - **Sensitisation** May cause sensitisation by inhalation and skin contact.
12 Ecological Information

- **Toxicity**

**Aquatic toxicity:**

- 868-77-9 2-hydroxyethyl methacrylate

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50/72h (algae)</td>
<td>836 mg/l (OECD 201)</td>
</tr>
<tr>
<td>EC50/48h (daphnia)</td>
<td>380 mg/l (OECD 202 Teil 1)</td>
</tr>
<tr>
<td>LC50/96h (fish)</td>
<td>&gt;100 mg/l</td>
</tr>
</tbody>
</table>

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

- **Behaviour in environmental systems:**
  - **Bioaccumulative 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 bodies or sewage system, even in small quantities.
    - Danger to drinking water if even extremely small quantities leak into soil.

- **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.

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
  - ADG, ADN, IMDG, IATA 
  - **Recommendation**
    - Void

- **UN proper shipping name**
  - ADG, ADN, IMDG, IATA
  - **Recommendation**
    - Void

- **Transport hazard class(es)**
  - ADG, ADN, IMDG, IATA
  - **Class**
    - Void

- **Packing group**
  - ADG, IMDG, IATA
  - **Recommendation**
    - Void

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

- **Special precautions for user**
  - Not applicable.
Trade name: Gluma Desensitizer PowerGel

15 Regulatory information
- 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.

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Acute Tox. 3: Acute toxicity – Category 3
  Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Resp. Sens. 1: Respiratory sensitisation – Category 1
  Skin Sens. 1: Skin sensitisation – Category 1

* Data compared to the previous version altered.