1 Identification of the substance/mixture and of the company/undertaking

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

- **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:** Heraeus Kulzer Australia Pty Ltd
    Unit 32
    11 – 21 Underwood Rd
    HOMEBUSHER NSW 2140
    Australia
    Tel: +61 (0) 2 9764 5222

- **Informing department:** see above

- **Emergency telephone number:** Emergency contact number: 13 11 26 (24 hours)

2 Hazards identification

- **Classification of the substance or mixture**
  - 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**
  - 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**
  - Wear respiratory protection.
  - Avoid breathing dust/fume/gas/mist/vapours/spray.

(Contd. on page 2)
Trade name: Gluma Desensitizer

Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Specific treatment (see on this label).

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterisation: Mixtures
Description:

Dangerous components:

<table>
<thead>
<tr>
<th>CAS:</th>
<th>EINECS:</th>
<th>Name</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>868-77-9</td>
<td>212-782-2</td>
<td>2-hydroxyethyl methacrylate</td>
<td>Skin Irrit. 2; H315; Eye Irrit. 2; H319; Skin Sens. 1; H317</td>
<td>25-50%</td>
</tr>
<tr>
<td>111-30-8</td>
<td>203-856-5</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>5-10%</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

General information
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After skin contact Instantly wash with water and soap and rinse thoroughly.

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. Instantly call for doctor.
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 Firefighting 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.
Trade name: Gluma Desensitizer

- Advice for firefighters
  - Protective equipment: Put on breathing apparatus.
- Additional information -

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Not required.
- 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 13 for information on disposal.
  - See Section 8 for information on personal protection equipment.

7 Handling and storage

- Handling
  - Precautions for safe handling
    - Keep containers tightly sealed.
    - Wear protective equipment. Keep unprotected persons away.
    - Ensure good ventilation/exhaustion at the workplace.
  - 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/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>111-30-8 glutaral</td>
<td>0.82 mg/m³, 0.2 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>Sen</td>
<td>Sen</td>
<td>SEN</td>
<td></td>
</tr>
</tbody>
</table>

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

- 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.
      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 trough 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.
    Tightly sealed safety glasses.
  - Body protection: Light weight protective clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Fluid
      - Colour: Colourless
      - Smell: Aromatic
      - Odour threshold: Not determined.
### Product Data

**Trade name:** Gluma Desensitizer

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH-value at 20 °C:</strong></td>
<td>4.0</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>· Melting point/Melting range:</td>
<td>Not determined</td>
</tr>
<tr>
<td>· Boiling point/Boiling range:</td>
<td>100 °C</td>
</tr>
<tr>
<td><strong>Flash point:</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Inflammability (solid, gaseous):</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Ignition temperature:</strong></td>
<td>230.0 °C</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Self-inflammability:</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong></td>
<td>Product is not explosive.</td>
</tr>
<tr>
<td><strong>Critical values for explosion:</strong></td>
<td></td>
</tr>
<tr>
<td>· Lower:</td>
<td>Not determined</td>
</tr>
<tr>
<td>· Upper:</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Steam pressure at 20 °C:</strong></td>
<td>23 hPa</td>
</tr>
<tr>
<td><strong>Density at 20 °C</strong></td>
<td>1.16 g/cm³</td>
</tr>
<tr>
<td>· Relative density</td>
<td>Not determined</td>
</tr>
<tr>
<td>· Vapour density</td>
<td>Not determined</td>
</tr>
<tr>
<td>· Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with</strong></td>
<td></td>
</tr>
<tr>
<td>· Water:</td>
<td>Not miscible or difficult to mix</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td></td>
</tr>
<tr>
<td>· dynamic:</td>
<td>Not determined</td>
</tr>
<tr>
<td>· kinematic:</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solvent content:</strong></td>
<td></td>
</tr>
<tr>
<td>· Water:</td>
<td>58.8 %</td>
</tr>
<tr>
<td>· Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

## 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.
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity
    - LD/LC50 values that are relevant for classification:
      |           | Oral | Dermal |
      |           | LD50 | LD50   |
      | 868-77-9 2-hydroxyethyl methacrylate | >2000 mg/kg (rat) | >3000 mg/kg (can) |

- Primary irritant effect:
  - Skin corrosion/irritation: Irritant for skin and mucous membranes.
  - Serious eye damage/irritation: Strong irritant with the danger of severe eye injury.

- Respiratory or skin sensitisation
  - Sensitization possible by inhalation.
  - Sensitization possible by skin contact.

- Additional toxicological information:
  - Harmful
  - Irritant

12 Ecological information

- Toxicity
  - Aquatic toxicity:
    - 868-77-9 2-hydroxyethyl methacrylate
      - LC50/96h 227 mg/l (fish)

- 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:
    - 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.
### 14 Transport information

- **UN-Number**: Void
- **UN proper shipping name**: Void
- **Transport hazard class(es)**: Void
- **Packing group**: Void
- **Environmental hazards**: No
- **Marine pollutant**: No
- **Special precautions for user**: Not applicable.
- **Transport in bulk according to Annex II of Marpol and the IBC Code**: Not applicable.
- **Transport/Additional information**: -
- **UN "Model Regulation"**: Void

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **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**
  - Causes skin irritation.
  - Causes serious eye damage.
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Trade name: Gluma Desensitizer

May cause an allergic skin reaction.

- **Precautionary statements**
  - Wear respiratory protection.
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Immediately call a POISON CENTER/doctor.
  - Specific treatment (see on this label).

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

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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
  - Flam. Liq. 4: Flammable liquids – Category 4
  - 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. 2: Serious eye damage/eye irritation – Category 2
  - Resp. Sens. 1: Respiratory sensitisation – Category 1
  - Skin Sens. 1: Skin sensitisation – Category 1

- * Data compared to the previous version altered.