1 Identification

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

- **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**
  - 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.

- **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**
  - 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 / eye protection / face protection.
  - In case of inadequate ventilation wear respiratory protection.
  - 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).
  - If experiencing respiratory symptoms: Call a poison center/doctor.

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

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D1B - Toxic material causing immediate and serious toxic effects

- Classification system
  - NFPA ratings for USA (scale 0-4)
    - Health = 3
    - Fire = 0
    - Reactivity = 0

- HMIS-Ratings (Scale 0-4)
  - Health = *3
  - Fire = 0
  - Reactivity = 0

- Other hazards -

3 Composition/information on ingredients

- Chemical characterization: Mixtures
  - Description: -

- Dangerous components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>868-77-9</td>
<td>25-50% w/w</td>
<td>Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317</td>
</tr>
<tr>
<td>111-30-8</td>
<td>5-10% w/w</td>
<td>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</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 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.

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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
  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 contaminated material as waste according to item 13.
  Send for recovery or disposal in suitable receptacles.
- Reference to other sections
  See Section 13 for disposal information.
  See Section 8 for information on personal protection equipment.

7 Handling and storage

- Handling
  - Precautions for safe handling
    Keep receptacles 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 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.
- Control parameters
  - Components with limit values that require monitoring at the workplace:
    111-30-8 glutaral
    EL () Z, A

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- 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.
      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.
    recommended
    - 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.
    Tightly sealed goggles.
  - Body protection: Light weight protective clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Fluid
      - Color: Colorless
      - Odor: Aromatic
      - Odor threshold: Not determined.
    - pH-value at 20 °C (68 °F): 4.0
    - Change in condition
      - Melting point/Melting range: undetermined
45.3

· Boiling point/Boiling range: 100 °C (212 °F)
· Flash point: Not applicable
· Flammability (solid, gaseous) Not applicable.
· Ignition temperature: 230.0 °C (446 °F)
· Decomposition temperature: Not determined.
· Auto igniting: Product is not selfigniting.
· Danger of explosion: Product does not present an explosion hazard.
· Explosion limits:
  · Lower: Not determined.
  · Upper: Not determined.
· Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F):
  · Relative density: Not determined.
  · Vapor density: Not determined.
  · Evaporation rate: Not determined.
· Solubility in / Miscibility with
  · Water: Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not determined.
· Viscosity:
  · dynamic: Not determined.
  · kinematic: Not determined.
· Solvent content:
  · Water: 58.8 %
  · 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: None.
· Hazardous decomposition products: None.

11 Toxicological information
· Information on toxicological effects
· Acute toxicity:
  · LD/LC50 values that are relevant for classification:
    Oral LD50 > 2000 mg/kg (rat)

868-77-9 2-hydroxyethyl methacrylate
· Oral LD50 5564 mg/kg (rat)
· Dermal LD50 >3000 mg/kg (can)
· Primary irritant effect:
  · on the skin: Irritant to skin and mucous membranes.
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- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization:
  Sensitization possible through inhalation.
  Sensitization possible through skin contact.
- Additional toxicological information:
  Harmful
  Irritant
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer)
      None of the ingredients is listed.
    - NTP (National Toxicology Program)
      None of the ingredients is listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity:
    868-77-9 2-hydroxyethyl methacrylate
    LC50/96h 227 mg/l (fish)
    SDB von Evonik für 64715842 (11.04.2016)
  - Persistence and degradability
    No further relevant information available.
  - Behavior 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 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.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

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

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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 / 2

Abbreviations and acronyms:

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- 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)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
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vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.