

SAFETY DATA SHEETS

This SDS packet was issued with item:

072157394

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

072157501 072157576

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

074564027

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 08/24/2010

Reviewed on 08/23/2010

1 Identification of substance:

Product details:

Trade name: **Gluma Desensitizer**

Application of the substance / the preparation For desensitisation of teeth

Manufacturer/Supplier:

Heraeus Kulzer GmbH
Grüner Weg 11, D-63450 Hanau

Tel.: 0800 4372522

Information department:

Dr. Hoffmann
Tel.: +49 6081 959-313
Fax: +49 6081 959-223
email: marcus.hoffmann@heraeus.com

Emergency information:

Call "Poisoning Emergency Center Berlin": +49 30 30686 790 (24 hours, support in english and german language)

2 Hazards identification

Hazard description:



Xn Harmful

Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 20/22 Harmful by inhalation and if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 41 Risk of serious damage to eyes.

R 42/43 May cause sensitization by inhalation and skin contact.

Classification system

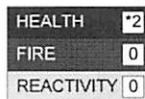
The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

NFPA ratings for USA (scale 0-4)



Health = 2
Fire = 0
Reactivity = 0

HMIS-Ratings (Scale 0-4)



Health = *2
Fire = 0
Reactivity = 0

3 Composition/Data on components:

Chemical characterization

Description: -

Dangerous components:

868-77-9	2-hydroxyethyl methacrylate	Xi; R 36/38-43	25-50%
111-30-8	glutaral	T, C, N; R 23/25-34-42/43-50	5-10%

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Additional information For the wording of the listed risk phrases refer to section 16. (Contd. of page 1)

4 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** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing** Immediately call a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Mount respiratory protective device.
- **Additional information -**

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
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.
- **Additional information:**
See Section 13 for disposal information.
See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**
 - **Information 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.
- **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.

8 Exposure controls and personal protection

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

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Components with limit values that require monitoring at the workplace:

111-30-8 glutaral

REL ()	Short-term value: C 0.8 mg/m ³ , C 0.2 ppm
TLV ()	Short-term value: C 0.2 mg/m ³ , C 0.05 ppm
SEN	

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

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:

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

Solvent resistant gloves

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

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

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:

General Information

Form:	Fluid
Color:	Colorless
Odor:	Aromatic

Change in condition

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	100°C (212°F)

Flash point: Not applicable

Ignition temperature: 230.0°C (446°F)

Auto igniting: Product is not selfigniting.

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Trade name: **Gluma Desensitizer**

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- | | |
|---|---|
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Vapor pressure at 20°C (68°F): | 23 hPa (17 mm Hg) |
| · Density at 20°C (68°F): | 1.16 g/cm ³ |
| · Solubility in / Miscibility with | |
| · Water: | Not miscible or difficult to mix |
| · pH-value at 20°C (68°F): | 4.0 |
| · Solvent content: | |
| · Water: | 58.8 % |

10 Stability and reactivity

- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** none

11 Toxicological information

- **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**

Oral	LD50	> 2000 mg/kg (rat)
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 - **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:**
 - Sensitization possible through inhalation.
 - Sensitization possible through skin contact.
- **Additional toxicological information:**
 - Harmful
 - Irritant

12 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.

13 Disposal considerations

- **Product:**
 - **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.

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14 Transport information

- DOT regulations:
 - Hazard class: -
- Land transport ADR/RID (cross-border)
 - ADR/RID class: -
- Maritime transport IMDG:
 - IMDG Class: -
 - Marine pollutant: No
- Air transport ICAO-TI and IATA-DGR:
 - ICAO/IATA Class: -
- Transport/Additional information: -

15 Regulations

- SARA Section 355 (extremely hazardous substances)
 - None of the ingredients is listed.
- SARA Section 313 (specific toxic chemical listings)
 - None of the ingredients is listed.
- Prop 65 - Chemicals known to cause cancer
 - None of the ingredients is listed.
- Cancerogenity categories
 - EPA (Environmental Protection Agency)
 - None of the ingredients is listed.
 - IARC (International Agency for Research on Cancer)
 - None of the ingredients is listed.
 - NTP (National Toxicology Program)
 - None of the ingredients is listed.
 - TLV (Threshold Limit Value established by ACGIH)

111-30-8 glutaral	A4
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 - NIOSH-Ca (National Institute for Occupational Safety and Health)
 - None of the ingredients is listed.
 - OSHA-Ca (Occupational Safety & Health Administration)
 - None of the ingredients is listed.
- Markings according to EU guidelines:
 - The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
 - Code letter and hazard designation of product:
 - Xn Harmful
 - Hazard-determining components of labelling:
 - 2-hydroxyethyl methacrylate
 - glutaral
 - Risk phrases:
 - 20/22 Harmful by inhalation and if swallowed.
 - 37/38 Irritating to respiratory system and skin.
 - 41 Risk of serious damage to eyes.

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Trade name: Gluma Desensitizer

42/43 May cause sensitization by inhalation and skin contact.

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Safety phrases:

9 Keep container in a well-ventilated place.

23 Do not breathe gas/fumes/vapour/spray.

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37/39 Wear suitable gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately.

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 R-phrases

23/25 Toxic by inhalation and if swallowed.

34 Causes burns.

36/38 Irritating to eyes and skin.

42/43 May cause sensitization by inhalation and skin contact.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

Department issuing MSDS: Safety department

Contact:

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* Data compared to the previous version altered.

USA