

Tel.: 0800 4372522

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### Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 05/30/2005 Reviewed on 05/25/2005

# 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

· Information department:

Dr. Barbara Bräu

Tel.: +49 2133 51-8521 / Fax: +49 2133 51-5016

e-mail: barbara.braeu@heraeus.com

· Emergency information: Call +49 30 19240 (24 hours).

# 2 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. N; R 23/25-34-42/43-50	5-10%

· Additional information For the wording of the listed risk phrases refer to section 16.

# 3 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 = 0Fire = 0Reactivity = 0

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# Trade name: Gluma Desensitizer

HMIS-Ratings (Scale 0-4)

Health = \*1
Fire = 0
REACTIVITY 0 Reactivity = 0

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#### 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.

### 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 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

- · Handling
  - Information for safe handling:

Keep receptacles tightly sealed.

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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# Trade name: Gluma Desensitizer

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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/m³, C 0.2 ppm TLV () Short-term value: C 0.2 mg/m³, 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 skin.

Avoid contact with the eyes and skin.

Breathing equipment: Suitable respiratory protective device recommended.

#### 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

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Wear protective gloves based on polyvinyl alcohole.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Chloroprene rubber, CR

- Eve protection: Protective goggles are recommended.
- 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)

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# Trade name: Gluma Desensitizer

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· Flash point:	Not applicable		
· Ignition temperature:	230.0°C (446°F)		
· Auto igniting:	Product is not selfigniting.		
· Danger of explosion:	Product does not present an explosion hazard.		
· <b>Vapor pressure at 20°C (68°F):</b> 23 hPa (17 mm Hg)			
· Density at 20°C (68°F):	1.160 g/cm³		
Solubility in / Miscibility with Water:	Not miscible or difficult to mix		
· pH-value at 20°C (68°F):	3.4		
Solvent content: Organic solvents: Water:	0.0 % 58.8 %		
· Solids content:	5.4 %		

# 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)

- 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

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

# 12 Ecological information:

General notes:

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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# 13 Disposal considerations

- · Product:
  - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage

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

# 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.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· Prop 65 - Chemicals known to cause reproductive toxicity

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.

111-30-8 glutaral

TLV (Threshold Limit Value established by ACGIH)

A4

· 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



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# Trade name: Gluma Desensitizer

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· 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.

Risk of serious damage to eyes.

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

· Safety phrases:

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

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

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

· National regulations

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

# 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.

Causes burns.

36/38 Irritating to eyes and skin.

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

May cause sensitization by skin contact.

Very toxic to aquatic organisms.

Department issuing MSDS: Safety department Contact: Dr. Tuchscherer Tel.: +49 6081 959-287

\* Data compared to the previous version altered.

