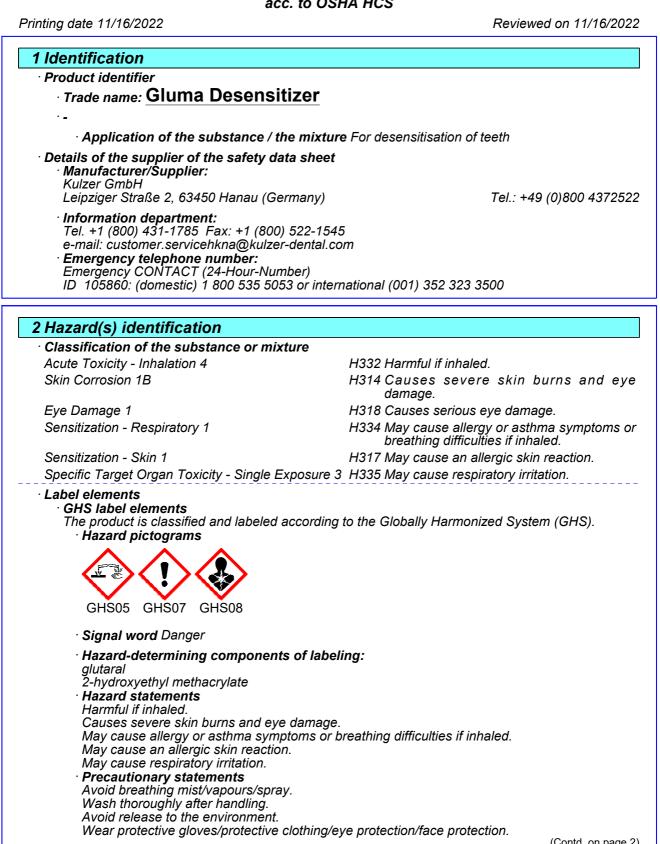


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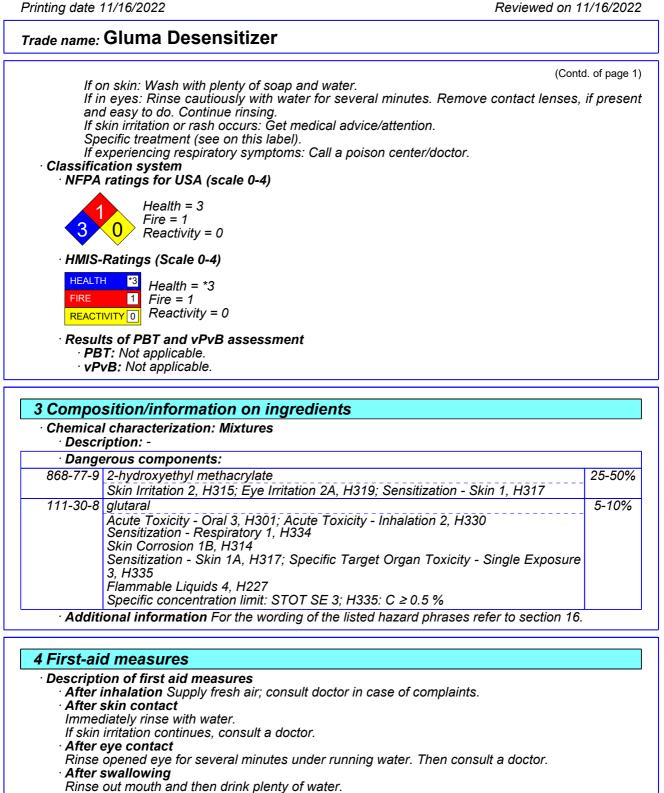


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If symptoms persist consult doctor.

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acc. to OSHA HCS Printing date 11/16/2022 Reviewed on 11/16/2022 Trade name: Gluma Desensitizer (Contd. of page 2) · 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 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. · Protective Action Criteria for Chemicals · PAC-1: 868-77-9 2-hydroxyethyl methacrylate 1.9 mg/m³ 111-30-8 glutaral 0.2 ppm · PAC-2: 868-77-9 2-hydroxyethyl methacrylate 21 mg/m³ 111-30-8 glutaral 1 ppm PAC-3: 868-77-9 2-hydroxyethyl methacrylate $1,000 \text{ mg/m}^3$ 111-30-8 glutaral 5 ppm 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.

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Trade name: Gluma Desensitizer

· 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.

	sure controls/personal protection
	onal information about design of technical systems: No further data; see item 7.
	ol parameters
	nponents with limit values that require monitoring at the workplace:
	-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.
Expos	ure controls
	sonal protective equipment
· (General protective and hygienic measures
Ĭ	Keep away from foodstuffs, beverages and feed.
1	mmediately remove all solled and contaminated clothing
	Wash hands before breaks and at the end of work.
	Avoid contact with the eyes and skin.
· E	Breathing equipment:
Ī	Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathin
K	protective mask (filter A).
	Protection of hands:
	The glove material has to be impermeable and resistant to the product/ the substance/ ti
	preparation.
	Selection of the glove material on consideration of the penetration times, rates of diffusion a
	he degradation
	f skin contact cannot be avoided, protective gloves are recommended to
é	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 of further marks of quality and varies from manufacturer to manufacturer. As the product is preparation of several substances, the resistance of the glove material can not a 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 protecti
	gloves and has to be observed.
	 For the permanent contact of a maximum of 15 minutes gloves made of the followin materials are suitable:
	Butyl rubber, BR
	Nitrile rubber, NBR
	Eye protection:
E	Before use, put on the protective goggles and cover the patient's eyes to protect again
5	splashes of material. (Contd. on page



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Trade name: Gluma Desensitizer

Tightly sealed goggles. • **Body protection:** Light weight protective clothing

nformation on basic physical and cl	nemical properties			
General Information				
· Appearance:				
· Form:	Fluid			
· Color: · Odor:	Colorless Aromatic			
· Odor threshold:	Not determined.			
· pH-value:	Not determined.			
· Change in condition				
• Melting point/Melting range:	undetermined			
· Boiling point/Boiling range:	undetermined			
· Flash point:	106 °C (222.8 °F)			
· Flammability (solid, gaseous)	Not applicable.			
• 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:	Not determined.			
· Density at 20 °C (68 °F):	1.16 g/cm³ (9.6802 lbs/gal)			
· 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/wa	iter): Not determined.			
· Viscosity:				
· dynamic:	Not determined.			
· kinematic:	Not determined.			
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: No further relevant information available.

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Trade name: Gluma Desensitizer

· Hazardous decomposition products: none

Inform	Diogical information Ition on toxicological effects			
	te toxicity:			
· LD/LC50 values that are relevant for classification:				
Oral	LD50 >2,000 mg/kg (rat)			
868-77-	9 2-hydroxyethyl methacrylate			
Oral	LD50 5,564 mg/kg (rat)			
Dermal	LD50 >5,000 mg/kg (can)			
111-30-	8 glutaral			
Oral	LD50 77 mg/kg (rat)			
	nt			
	arcinogenic categories			
· C	· IARC (International Agency for Research on Cancer)			
· C	· IARC (International Agency for Research on Cancer) the ingredients is listed.			
· C None of	· IARC (International Agency for Research on Cancer) the ingredients is listed. · NTP (National Toxicology Program)			
· C None of	· IARC (International Agency for Research on Cancer) the ingredients is listed.			

Toxicity		
· Aquatic t	oxicity:	
868-77-9 2-h	ydroxyethyl methacrylate	
EC50/48h	380 mg/l (daphnia)	
LC50/96h	>100 mg/l (fish)	
EC50	>3,000 mg/l (bacteria)	
NOEC / 21d	24.1 mg/l (daphnia)	
ErC50 / 72 h	836 mg/l (algae)	
NOEC / 72h	400 mg/l (algae) (OECD 201)	
Behavior in Bioaccun	and degradability No further relevant information available. environmental systems: nulative potential No further relevant information available. n soil No further relevant information available.	
· Bioaccun · Mobility i	nulative potential No further relevant information available. n soil No further relevant information available.	(Contd.

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Trade name: Gluma Desensitizer

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.

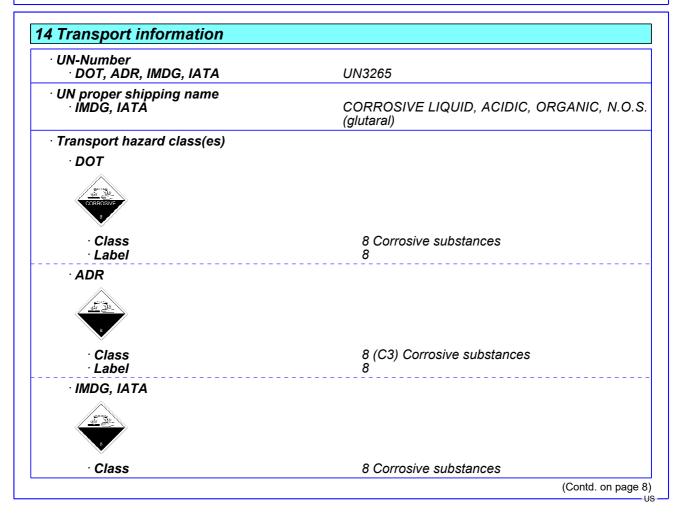
13 Disposal considerations

- · 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.





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Trade name: Gluma Desensitizer

		(Contd. of page
· Label	8	
· Packing group · DOT, ADR, IMDG, IATA	11	
• Environmental hazards: • Marine pollutant:	No)
· Special precautions for user · Hazard identification number (K	Warn C emler	ing: Corrosive substances
code): EMS Number:		80 F-A,S-B
 Segregation groups Stowage Category Stowage Code 		Acids B SW2 Clear of living quarters.
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not a	pplicable.
· Transport/Additional information:	-	
• ADR • Excepted quantities (EQ)		Code: E2 Maximum net quantity per inner packaging: 3 ml Maximum net quantity per outer packaging: 50 ml
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 		1L Code: E2 Maximum net quantity per inner packaging: 3 ml Maximum net quantity per outer packaging: 50
		ml

15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. · Sara 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. · Hazardous Air Pollutants None of the ingredients is listed. · Proposition 65 · Prop 65 - Chemicals known to cause cancer None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. (Contd. on page 9) US



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Trade name: Gluma Desensitizer

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Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Cancerogenity categories

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

111-30-8 glutaral

• NIOSH-Ca (National Institute for Occupational Safety and Health)

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. H330 Fatal if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. Date of preparation / last revision 11/16/2022 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity - Oral 3: Acute toxicity – Category 3 Acute Toxicity - Inhalation 2: Acute toxicity – Category 2 Acute Toxicity - Inhalation 4: Acute toxicity – Category 4 Skin Corrosion 1B: Skin corrosion/irritation – Category 1B Skin Initiation 2: Skin corrosion/irritation – Category 2 Eye Damage 1: Serious eye damage/eye irritation – Category 1 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Respiratory 1: Respiratory sensitisation - Category 1

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Trade name: Gluma Desensitizer

(Contd. of page 9) Sensitization - Skin 1: Skin sensitisation – Category 1 Sensitization - Skin 1A: Skin sensitisation – Category 1A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.

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