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Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2015

Reviewed on 05/26/2015

Tel.: 0800 4372522

1 Identification

- · Product identifier
 - Trade name: Gluma Comfort Bond + Desensitizer
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - Application of the substance / the mixture Dental bonding material
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Heraeus Kulzer GmbH

Grüner Weg 11, D-63450 Hanau

· Information department:

Marc Henn

Tel. +1 (574) 2995444 / Fax: +1 (574) 2912542

e-mail: marc.henn@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

H226 Flammable liquid and vapour.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 1A H350 May cause cancer.

Eve Dam. 1 H318 Causes serious eye damage.

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS05

- · Signal word Danger
- · Hazard-determining components of labeling:

ethanol

2-hydroxyethyl methacrylate glutaral

4-methacryloxyethyltrimellitic acid anhydride

· Hazard statements

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.
May cause cancer.

Précautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting/equipment.

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IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system
 - NFPA ratings for USA (scale 0-4)



Health = 2 Fire = 3 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = *2 Fire = 3 Reactivity = 0

- · Results of PBT and vPvB assessment
 - PBT: Not applicable.
 vPvB: Not applicable.
- 3 Composition/information on ingredients
 - · Chemical characterization: Mixtures
 - · Description: Composition based on methacrylates

· Dangerous components:		
64-17-5	ethanol	25-50%
868-77-9	2-hydroxyethyl methacrylate	10-25%
	Poly(methacrylic-oligo-acrylic acid)	5-10%
70293-55-9	4-methacryloxyethyltrimellitic acid anhydride	0-5%
111-30-8	glutaral	0-5%

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 inhalation Supply fresh air; consult doctor in case of complaints.
- · 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.

Composition based on methacrylates

- 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.

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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

For safety reasons unsuitable extinguishing agents Water with full jet.

Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

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

Wear protective equipment. Keep unprotected persons away.

- · 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

· Precautions for safe handling

Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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: Keep cool, if possible (not above 25 °C).
- · 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:

64-17-5 ethanol

PEL () 1900 mg/m³, 1000 ppm

REL () 1900 mg/m³, 1000 ppm

TLV () 1880 mg/m³, 1000 ppm

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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.

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.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Proofbing ogvinment

· 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 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

- · Eye protection: 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: Yellowish
· Odor: Characteristic

· Change in condition

Melting point/Melting range: undetermined
 Boiling point/Boiling range: 78 °C (172 °F)

· Flash point: 24 °C (75 °F)

· Ignition temperature: 425.0 °C (797 °F)

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(Contd. of page 4) Product is not selfigniting. · Auto igniting: · Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits: ·Lower: 3.5 Vol % · Upper: 15.0 Vol % · Vapor pressure at 20 °C (68 °F): 57 hPa (43 mm Hg) · Density: Not determined · Solubility in / Miscibility with · Water: Not miscible or difficult to mix · Solvent content: · Water: · VOC USA 577.4 g/l / 4.82 lb/gl · Other information No further relevant information available.

10 Stability and reactivity

- · 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:
 - · 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

· 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.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
 - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.

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- · 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

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

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

UN-Number	
· DOT	UN1170
· ADR, IMDG, IATA	1170
· UN proper shipping name	
· ADR	1170 ETHANOL SOLUTION (ETHYL ALCOHO
	SOLUTION)
· IMDG	ETHANOL SOLUTION (ETHYL ALCOHO
· IATA	SOLUTION) ETHANOL, solution
Transport hazard alasa(sa)	·
Transport hazard class(es)	
· DOT	
· Class	3 Flammable liquids
· Label	3
· ADR	
· Class	3 (F1) Flammable liquids

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· Label

· IMDG, IATA



· Class 3 Flammable liquids

· Label

· Packing group · DOT, ADR, IMDG, IATA

· Environmental hazards:
· Marine pollutant:

No

· Special precautions for user Warning: Flammable liquids

· Danger code (Kemler): 30 · EMS Number: F-E,S-D

 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
 Not applicable.

· Transport/Additional information: -

• UN "Model Regulation": UN1170, ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III

III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· Cancerogenity categories

TLV (Threshold Limit Value established by ACGIH)
 64-17-5 ethanol
 111-30-8 glutaral

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS05 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: ethanol

2-hydroxyethyl methacrylate glutaral

4-methacryloxyethyltrimellitic acid anhydride

Hazard statements

Flammable liquid and vapour.

Causes skin irritation.

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Trade name: Gluma Comfort Bond + Desensitizer

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Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause cancer.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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.

Date of preparation / last revision 05/27/2015 / -

· 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

DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists

EUNCS: 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) VOC: Volatile Organic Compounds (USA, EU) Flam. Liq. 3: Flammable liquids, Hazard Category 3 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Carc. 1A: Carcinogenicity, Hazard Category 1A

* Data compared to the previous version altered.