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Safety Data Sheet acc. to OSHA HCS

Printing date 11/16/2022 Reviewed on 11/16/2022 1 Identification · Product identifier · Trade name: Venus Bulk Fill · Application of the substance / the mixture Dental filling material · Details of the supplier of the safety data sheet Manufacturer/Supplier: Kulzer GmbH Tel.: +49 (0)800 4372522 Leipziger Straße 2, 63450 Hanau (Germany) · 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) 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 2 H315 Causes skin irritation. Eye Irritation 2A H319 Causes serious eye irritation. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Toxic to Reproduction 1B H360 May damage fertility or the unborn child. · Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate 2-ethylhexyl 4-(dimethylamino)benzoate Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the unborn child. Precautionary statements Wear protective gloves/protective clothing/eye protection/face 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 skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing. Store locked up. (Contd. on page 2)

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(Contd. of page 1) Dispose of contents/container in accordance with local/regional/national/international regulations.

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



HMIS-Ratings (Scale 0-4)



Health = 2Fire = 1 REACTIVITY 0 Reactivity = 0

Results of PBT and vPvB assessment · PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures Description: -· Dangerous components:

	Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	<i>≥</i> 10-<20%
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16- diyl bismethacrylate	10-25%
	Sensitization - Skin 1B, H317	
21245-02-3	2-ethylhexyl 4-(dimethylamino)benzoate	<i>≥</i> 0.1-<1%
	Toxic to Reproduction 1B, H360	

4 First-aid measures

· Description of first aid measures

General information No special measures required.

- · 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.
- 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.
 - · 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 foam.
- Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available. • Advice for firefighters
- · Protective equipment: No special measures required.
- · 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: Pick up mechanically.
- 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 No special measures required.
- · 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:
- Store in dry conditions.
- Keep cool, if possible (not above 25 °C).

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Not required.

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

Exposure controls

Personal protective equipment

- General protective and hygienic measures
- Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.

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· 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

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: Safety glasses
- Body protection: Light weight protective clothing

Information on basic physical and che General Information Appearance:	emical properties
Form:	Pasty
· Color:	White Yellowish
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	undetermined undetermined
· Flash point:	100 °C (212 °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: Upper:	Not determined. Not determined.
· Vapor pressure:	Not determined.
Density at 20 °C (68 °F): Relative density Vapor density	1.9 g/cm³ (15.8555 lbs/gal) Not determined. Not determined.



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· Evaporation rate

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 Solubility in / Miscibility with Water: Not miscible or difficult to mix
 Partition coefficient (n-octanol/water): Not determined.
 Viscosity:

· dynamic:

· kinematic:

Not determined. Not determined.

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.
- · Hazardous decomposition products: none
- · Additional information: -

11 Toxicological information

Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

56744-60-6 Bisphenol-A-ethoxylat(4)dimethacrylat

Oral LD50 >2000 mg/kg (rat)

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

Oral LD50 >5000 mg/kg (rat) (OECD 401)

Dermal LD50 >2000 mg/kg (rat) (OECD 402)

21245-02-3 2-ethylhexyl 4-(dimethylamino)benzoate

Oral LD50 14900 mg/kg (rat)

- · Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories	
·	ARC (International Agency for Research on Cancer)
7631-86-9	silicon dioxide, chemically prepared
128-37-0	2,6-di-tert-butyl-p-cresol
·	NTP (National Toxicology Program)
None of the ingredients is listed.	

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Reproductive toxicity

21245-02-3 2-ethylhexyl 4-(dimethylamino)benzoate

Oral NOAEL (Fruchtbarkeit) 50 mg/kg/d /64 d (rat) (OECD 421)

· Toxicity	
· Aquatic to	xicity:
	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl ismethacrylate
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)
LC50/96h	10.1 mg/l (fish) (OECD 203)
ErC50 / 72 h	>0.68 mg/l (algae) (OECD 201)
NOEC / 72h	0.21 mg/l (algae) (OECD 201)
· Persistence a	and degradability
72869-86-4 7,	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl ismethacrylate
biodegradabili	ty 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
• Results of PE • PBT: Not a • vPvB: Not	
3 Disposal c	onsiderations
· Waste treatm	
Waste treatm Recomme Uncleaned pa	ent methods ndation Smaller quantities can be disposed of with household waste.

· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA

Void

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Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
Packing group DOT, ADR, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Il of Not applicable.	
Transport/Additional information:	-	
UN "Model Regulation":	Void	

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.

· 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.

· 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)

128-37-0 2,6-di-tert-butyl-p-cresol

• 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.

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6 (Other information
7	hese data are based on our present knowledge. However, they shall not constitute a guarantee
а	ny specific product features and shall not establish a legally valid contractual relationship.
	Relevant phrases
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H319 Causes serious eye irritation.
	H335 May cause respiratory irritation.
	H360 May damage fertility or the unborn child.
	· Date of preparation / last revision 11/16/2022
	· Abbreviations and acronyms:
	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreem
	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 Skin Irritation 2: Skin corrosion/irritation – Category 2
	Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
	Sensitization - Skin 1: Skin sensitisation – Category 1
	Sensitization - Skin 1B: Skin sensitisation – Category 1B
	Toxic to Reproduction 1B: Reproductive toxicity – Category 1B
	Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
	• * Data compared to the previous version altered.