SAFETY DATA SHEETS

This SDS packet was issued with item: 074565305

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

074565289

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).

071114750 074515271 074515289 074562575 074562583 074562591 074562609 074562617 074562625 074562633 074562641 074562658 074562666 074562674 074562682 074562724 074562732 074562740 074562757 074562765 074562773 074562799 074562807 074562815 074562823 074562831 074562849 074562856 074562880 074562898 074562906 074562914 074562922 074562930 074562948 074562955 074562963 074562971 074562989 074562997 074563003 074563011 074563029 074563037 074563045 074563052 074563060 074563078 074563086 074563094 074563102 074563110 074563128 074563136 074563144 074563300 074563318 074563326 074563334 074563961 074564019 074564027 074564704 074564761 074564829 074564852 074564878 074565255 074565263 074565271 074565313 074565321 074565339 074565347 074565354 074565362 074565370 074565388 074565396 074565404 074565412 074565420 074565438 074565446 074565552 074565560 074565578 074565586 074565594 074565602 074565610 074565628 074565636 074565644 074565651 074565669 074565677 074567004 272427276

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Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2015 Reviewed on 08/04/2015 1 Identification · Product identifier Trade name: Venus Diamond · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Dental filling material Details of the supplier of the safety data sheet Manufacturer/Supplier: Heraeus Kulzer GmbH Grüner Weg 11, D-63450 Hanau Tel.: 0800 4372522 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 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 GHS07 · Signal word Warning · Hazard-determining components of labeling: 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl)bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester triethylenglycoldimethacrylate · Hazard statements May cause an allergic skin reaction. Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves. Specific treatment (see on this label). Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system NFPA ratings for USA (scale 0-4) Health = 0 Fire = 1Reactivity = 0 (Contd. on page 2) LISA

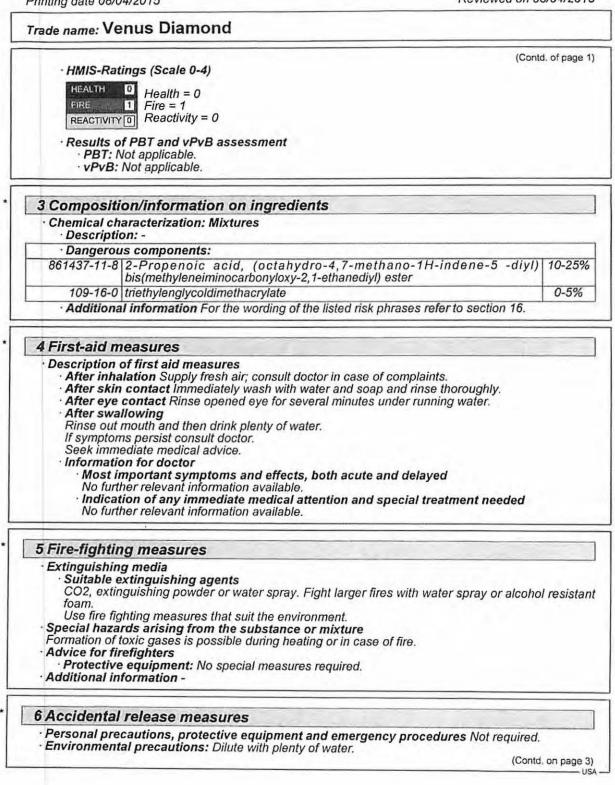
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Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2015

Reviewed on 08/04/2015



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Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2015

Reviewed on 08/04/2015

Trade name: Venus Diamond

(Contd. of page 2)

 Methods and material for containment and cleaning up: Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues). Send for recovery or disposal in suitable receptacles. Reference to other sections

- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling

Precautions for safe handling

Please observe the additional instructions in the product's instructions for use. 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: None.
- 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:

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

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

Exposure controls

Personal protective equipment

- General protective and hyglenic measures Immediately remove all solled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Breathing equipment: Not required.
- 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

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

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 preperation 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 gloves made of the following materials are suitable: Natural rubber, NR

(Contd. on page 4)

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Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2015

Reviewed on 08/04/2015

Trade name: Venus Diamond

Eye protection: Safety glasses
 Body protection: Light weight protective clothing

Information on basic physical and ch	nemical properties
General Information	
· Appearance: · Form:	Pasty
· Color:	White
COIDI.	Yellowish
· Odor:	Odorless
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
 Melting point/Melting range: 	undetermined
· Boiling point/Boiling range:	undetermined
- Fiash point:	> 165 °C (> 329 °F)
· Flammability (solid, gaseous)	Not applicable.
Ignition temperature:	
· 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):	2.23 g/cm³ (18.609 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	n an
· Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity:	
· dvnamic:	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.
- · Hazardous decomposition products: none

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Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2015

Reviewed on 08/04/2015

Trade name: Venus Diamond

· Additional information: -

11 Toxicological Information

- Information on toxicological effects · Acute toxicity: Primary Irritant effect: on the skin: No irritant effect. · on the eye: No irritating effect.
 - Sensitization: Sensitization possible through skin contact. · Additional toxicological information: Irritant

Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7631-86-9 silicon dioxide, chemically prepared

Butvl-hvdroxy-toluol

·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.
- · Behavior in environmental systems:
 - Bioaccumulative potential No further relevant information available. Mobility In soll No further relevant information available.
- Additional ecological information:
- General notes:

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.
- · 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.

14 Transport information

UN-Number

DOT, ADR, ADN, IMDG, JATA

Void

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Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2015

Reviewed on 08/04/2015

Trade name: Venus Diamond

		(Contd. of page 1
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
• 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	ll of Not applicable.	
· Transport/Additional Information:		
· UN "Model Regulation":	-	

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.

· TSCA (Toxic Substances Control Act) Medical devices are exempted from TSCA.

· Cancerogenity categories

· TLV (Threshold Limit Value established by ACGIH)

A4

Butyl-hydroxy-toluol • GHS label elements

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



· Signal word Warning

 Hazard-determining components of labeling:
 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl)bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester triethylenglycoldimethacrylate
 Hazard statements May cause an allergic skin reaction.
 Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves.
 Specific treatment (see on this label).
 Wash contaminated clothing before reuse.
 If skin imitation or rash occurs: Get medical advice/attention.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

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USA

Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2015

Reviewed on 08/04/2015

Trade name: Venus Diamond

(Contd. of page 6) 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 08/04/2015 / -

Date of preparation / last revision 08/04/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriège of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified 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: Hezardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 * Data compared to the previous version altered.

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Safety data sheet according to 1907/2006/EC, Article 31

SECTION 1: Identification of the substance/mixture and of the company undertaking 1.1 Product identifier • Trade name: Venus flow 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. • Application of the substance / the mixture Dental filling material 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Heraeus Kulzer GmbH Grüner Weg 11, D-63450 Hanau Tel:: 0800 437252 • Informing department: E-Mail: msds @kulzer-dental.com • 1.4 Emergency telephone number: Emergency telephone number: Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463 SECTION 2: Hazards identification • Classification according to Regulation (EC) No 1272/2008 Skin Sens. 1. H317 May cause an allergic skin reaction. • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. • Hazard statements H317 May cause an allergic skin reaction. • Product is classified and labelled according to the CLP regulation. • Hazard statements H317 May cause an allergic skin reaction. • Hazard statements	Printing date 20.01.2016	Version number 2	Revision: 30.12.201
 1.1 Product identifier Trade name: Venus flow 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Dental filling material 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Heraeus Kulzer GmbH Grüner Weg 11, D-63450 Hanau Tel.: 0800 437252 Informing department: E-Mail: msds @kulzer-dental.com 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin Sens. 1 H317 May cause an allergic skin reaction. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms GHS07 Signal word Warning Hazard-determining components of labelling: triethylenglycoldimethacrylate Hazard statements H317 May cause an allergic skin reaction. Precautionary statements H317 May cause an allergic skin reaction. Precautionary statements H317 May cause an allergic skin reaction. Precautionary statements H317 May cause an on		tification of the substance/mixture	and of the company
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	 PBI: Not applical vPvR: Not applical 	ole. able	

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Heraeus Kulzer

Mitsui Chemicals Group Page 2/7

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.01.2016

Version number 2

Revision: 30.12.2015

Trade name: Venus flow

(Contd. of page 1)

SECTION 3: Composition/	information on ingredients	
• 3.2 Chemical characterisation: • Description: Product based o		
 Dangerous components: 		
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-0000	triethylenglycoldimethacrylate Skin Sens. 1B, H317	10-25%
CAS: 24650-42-8 EINECS: 246-386-6	2,2-Dimethoxy-1,2-diphenyl-ethan-1-on Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 1%
 Additional information For th 	he wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · General information Instantly remove any clothing soiled by the product.
- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact
- Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- After eye contact Rinse opened eye for several minutes under running water. Then consult doctor. · After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
 - Suitable extinguishing agents
 - CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
 - Protective equipment: No special measures required.
 - · Additional information -

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

- Do not allow to enter the ground/soil.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

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· 6.4 Reference to other sections

See Section 13 for information on disposal.

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Wear protective equipment. Keep unprotected persons away.

Please observe the additional instructions in the product's instructions for use.

• Information about protection against explosions and fires: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
 - · Storage
 - · Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Store cool (not above 25 °C).
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

· 8.1 Control parameters

Components with critical 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.

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

· 8.2 Exposure controls

· Personal protective equipment

General protective and hygienic measures

- Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments.
- Wash hands during breaks and at the end of the work.
- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- 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

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 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.

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· 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 Nitrile rubber, NBR · Eye protection: Tightly sealed safety glasses. **Body protection:** Light weight protective clothing SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties **General Information** Appearance: Form: Pastv · Colour: Different according to colour · Smell: Characteristic · Odour threshold: Not determined. · pH-value: Not determined. Change in condition • Melting point/Melting range: Not determined Boiling point/Boiling range: Not determined >160 °C · Flash point: · Inflammability (solid, gaseous) Not applicable. · Ignition temperature: Decomposition temperature: Not determined. · Self-inflammability: Product is not selfigniting. · Danger of explosion: Product is not explosive. · Critical values for explosion: · Lower: Not determined. · Upper: Not determined. · Steam pressure: Not determined. · Density at 20 °C 1.8 g/cm³ Relative density Not determined. Vapour density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with · Water: Not miscible or difficult to mix · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Not determined. dynamic: kinematic: Not determined. (Contd. on page 5)



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· Solvent content:

 Solids content: 9.2 Other information

>60 % No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

- **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None

Additional information:

If stored longer than recommended and/or above recommended temperature,

product may polymerize generating heat.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
 - Primary irritant effect:
 - Skin corrosion/irritation Based on available data, the classification criteria are not met.
 - Serious eye damage/irritation Based on available data, the classification criteria are not met. · Respiratory or skin sensitisation
 - Guinea-Pig Maximisation Test (OECD 406): negative May cause an allergic skin reaction.
 - · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 - Germ cell mutagenicity Based on available data, the classification criteria are not met.
 - · Carcinogenicity Based on available data, the classification criteria are not met.
 - Reproductive toxicity Based on available data, the classification criteria are not met.
 - STOT-single exposure Based on available data, the classification criteria are not met.
 - STOT-repeated exposure Based on available data, the classification criteria are not met.
 - Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
 - Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
 - Additional ecological information:
- General notes: Avoid transfer into the environment. 12.5 Results of PBT and vPvB assessment

 - · PBT: Not applicable.
 - · vPvB: Not applicable.

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· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

· European waste catalogue

18 01 06 chemicals consisting of or containing dangerous substances

· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport informatio	n	
14.1 UN-Number ADR, ADN, IMDG, IATA	Void	
• 14.2 UN proper shipping name • ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
 14.7 Transport in bulk according to Anne. Marpol and the IBC Code 	x II of Not applicable.	
· Transport/Additional information:	-	
UN "Model Regulation":	Void	

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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These data are based on our present knowledge. However, they shall not constitute a guarantee for a
specific product features and shall not establish a legally valid contractual relationship.
· Relevant phrases
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Senś. 1: Sensitisation - Śkin, Hazard Category 1
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
• * Data compared to the previous version altered.



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1.1 Product identifier	
Trade name: Venus Diamond	
1.2 Relevant identified uses of the substance or mixture No further relevant information available.	e and uses advised against
· Application of the substance / the mixture Dental filling	ng material
1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 Hanau (Germany)	Tel.: +49 (0)800 4372
• Informing department: E-Mail: msds@kulzer-dental.co 1.4 Emergency telephone number: Emergency CONTAC	om
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture	
 Classification according to Regulation (EC) No 1272 	
Skin Sens. 1 H317 May cause an allergic skin read	
Aquatic Chronic 3 H412 Harmful to aquatic life with long	g lasting effects.
GHS07	
· Signal word Warning	
 Hazard-determining components of labelling: 2-Propenoic acid, 1,1'-[(octahydro-4, bis(methyleneoxycarbonylamino-2,1-ethanediyl)] este 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dio bismethacrylate triethylen glycol dimethacrylate Hazard statements H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. Precautionary statements P273 Avoid release to the environment. P280 Wear protective gloves / eye protection. P280 Wear protective clothing. P302+P352 IF ON SKIN: Wash with plenty of soap a P333+P313 If skin irritation or rash occurs: Get media 2.3 Other hazards - Results of PBT and vPvB assessment PBT: Not applicable. 	er 5xa-5,12-diazahexadecane-1,16-c nd water.



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SECTION 3: Composition/	/information on ingredients	
· 3.2 Mixtures · Description: -		
 Dangerous components: 		
-	2-Propenoic acid, 1,1'-[(octahydro-4,7-methano-1H- indene-5,?-diyl)bis(methyleneoxycarbonylamino-2,1- ethanediyl)] ester Skin Sens. 1, H317 Aquatic Chronic 3, H412	<i>≥</i> 10-<25%
EINECS: 276-957-5 Reg.nr.: 01-2120751202-68-xxxx	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate Aquatic Chronic 2, H411 Skin Sens. 1B, H317 EUH204	<i>≥</i> 2.5-<5%
	triethylen glycol dimethacrylate Skin Sens. 1B, H317	<i>≥</i> 1- <i>≤</i> 5%
	Oxybenzone Aquatic Acute 1, H400; Aquatic Chronic 2, H411	<i>≥</i> 0.25-<1%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact instantly 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.
- In case of persistent symptoms consult doctor.
- Seek immediate medical advice.
- · 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing agents
- CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.
- · 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire. **5.3 Advice for firefighters**
- - Protective equipment: No special measures required.
 - · Additional information -

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

- · 6.2 Environmental precautions: Dilute with much water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

Send for recovery or disposal in suitable containers.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Please observe the additional instructions in the product's instructions for use. • Information about protection against explosions and fires: No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities
 - Storage
 - Requirements to be met by storerooms and containers: No special requirements.
 - · Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Components with critical 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.

DNELS

Oral	<i>bismethacrylate</i> general population, long term, systemic	0.3 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic	1.3 mg/Kg/d (not defined)	
	general population, long term, systemic	0.7 mg/Kg/d (not defined)	
Inhalative	worker industrial, long term, systemic	3.3 mg/m3 (not defined)	
	general population, long term, systemic	0.6 mg/m3 (not defined)	
109-16-0 1	triethylen glycol dimethacrylate		
Oral	general population, long term, systemic	8.33 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic	13.9 mg/Kg/d (not defined)	
	general population, long term, systemic	8.33 mg/Kg/d (not defined)	
Inhalative	worker industrial, long term, systemic	48.5 mg/m3 (not defined)	
	general population, long term, systemic	14.5 mg/m3 (not defined)	
131-57-7 (Oxybenzone		
Oral	general population, long term, systemic	2 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic	39 mg/Kg/d (not defined)	



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		term, systemic 20 mg/Kg/d (not defined)		
Inhalative	worker industrial, long te			
	general population, long	term, systemic 6.8 mg/m3 (not defined)		
· PN				
72869-86	-4 7,7,9(or 7,9,9)-trimet bismethacrylate	hyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl		
freshwate	r	0.01 mg/l (not defined)		
marine wa	ater	0.001 mg/l (not defined)		
sewage tr	eatment plant	3.61 mg/l (not defined)		
sediment,	dry weight, freshwater	4.56 mg/Kg (not defined)		
		0.46 mg/Kg (not defined)		
soil, dry w		0.91 mg/Kg (not defined)		
109-16-0	triethylen glycol dimeth	-		
freshwate	r	0.016 mg/l (not defined)		
marine wa		0.002 mg/l (not defined)		
sewage tr	eatment plant	1.7 mg/l (not defined)		
sediment,	dry weight, freshwater	0.185 mg/Kg (not defined)		
sediment,	dry weight, marine water			
soil, dry w		0.027 mg/Kg (not defined)		
131-57-7	Oxybenzone			
freshwate	r	0.00067 mg/l (not defined)		
marine wa	ater	0.000067 mg/l (not defined)		
sewage tr	eatment plant	10 mg/l (not defined)		
sediment,	dry weight, freshwater	0.066 mg/Kg (not defined)		
sediment,	dry weight, marine water	0.007 mg/Kg (not defined)		
soil, dry w	reight	0.013 mg/Kg (not defined)		
		e lists that were valid during the compilation were used as basis.		
	sure controls priate engineering cont	rols No further data; see item 7.		
· Individ	Jual protection measure	es, such as personal protective equipment		
· Gei	neral protective and hyg	lienic measures		
		and impregnated garments.		
· Bre	sh hands during breaks a athing equipment: Not r	required		
· Haı	nd protection			
The glove material has to be impermeable and resistant to the product/ the substance/ the				
	e glove material has to b	e impermeable and resistant to the product/ the substance/ the		
pre	e glove material has to b paration.			
pre Sel	e glove material has to b paration. ection of the glove materi	e impermeable and resistant to the product/ the substance/ the al on consideration of the penetration times, rates of diffusion and		
pre Sel the If s	e glove material has to b paration. ection of the glove materi degradation kin contact cannot be a			
pre, Sel If s sen Che	e glove material has to b paration. ection of the glove materi degradation kin contact cannot be a psitization.	al on consideration of the penetration times, rates of diffusion and		
pre Sel the If s sen Che rec	e glove material has to b paration. ection of the glove materi degradation kin contact cannot be a psitization. eck protective gloves prior ommended Material of gloves	al on consideration of the penetration times, rates of diffusion and voided, protective gloves are recommended to avoid possible r to each use for their proper condition.		
pre Sel the If s sen Che reco	e glove material has to b paration. ection of the glove materi degradation kin contact cannot be a psitization. eck protective gloves prior ommended Material of gloves The selection of the suit further marks of quality a preparation of several s	al on consideration of the penetration times, rates of diffusion and voided, protective gloves are recommended to avoid possible		



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Printing date 16.11.2022 Version number 4 (replaces version 3) Revision: 16.11.2022 Trade name: Venus Diamond (Contd. of page 4) · 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 Nitrile rubber, NBR · Eye/face protection Safety glasses Body protection: Light weight protective clothing SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties **General Information** Physical state Fluid · Colour: White Yellowish · Smell: Odourless Odour threshold: Not determined. Not determined · Melting point/freezing point: · Boiling point or initial boiling point and Not determined boiling range · Flammability Not applicable. · Lower and upper explosion limit Lower: Not determined. Not determined. · Upper: >150 °C (109-16-0 triethylen glycol · Flash point: dimethacrylate) · Decomposition temperature: Not determined. SADT · pH Not determined. · Viscosity: · Kinematic viscosity Not determined. Not determined. · dynamic: · Solubility Not miscible or difficult to mix Water: · Partition coefficient n-octanol/water (log value) Not determined. · Steam pressure: Not determined. · Density and/or relative density · Density at 20 °C 2.23 g/cm3 · Relative density Not determined. · Vapour density Not determined. · 9.2 Other information No further relevant information available. Appearance: Form: Pasty · Important information on protection of health and environment, and on safety. Self-inflammability: Product is not selfigniting. · Explosive properties: Product is not explosive.

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	(Contd	of p
· Change in condition		
· Evaporation rate	Not determined.	
· Information with regard to physical hazard		
classes		
· Explosives	Void	
· Flammable gases	Void	
· Aerosols	Void	
 Oxidising gases 	Void	
[.] Gases under pressure	Void	
· Flammable liquids	Void	
· Flammable solids	Void	
Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

- **Conditions to be avoided:** No decomposition if used and stored according to specifications. **10.3 Possibility of hazardous reactions** No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available. **10.6 Hazardous decomposition products:** None

Additional information: -

		1: Toxicological information
11.1 Inf · Acu	ormati te toxi	ion on hazard classes as defined in Regulation (EC) No 1272/2008 city Based on available data, the classification criteria are not met.
· L	D/LC5	0 values that are relevant for classification:
72869-8	36-4 7, bi	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl smethacrylate
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
109-16-	0 trietl	hylen glycol dimethacrylate
Oral	LD50	8,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (mouse)
131-57-	7 Oxyl	benzone
Oral	LD50	>12,800 mg/kg (rat) (OECD 401)
Dermal	LD50	>16,000 mg/kg (rabbit) (OECD 402)
		(Contd. on page



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• Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation May cause an allergic skin reaction.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met. **Reproductive toxicity** Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity	
· Aquatic t	•
65997-17-3 0	•
	>1,000 mg/l (daphnia)
	>1,000 mg/l (fish)
	>1,000 mg/l (algae)
NOEC / 72h	1,000 mg/l (algae)
	1,000 mg/l (daphnia)
72869-86-4 7 b	',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)
109-16-0 trie	thylen glycol dimethacrylate
EC50/21d	51.9 mg/L (daphnia) (OECD 211)
LC50/96h	16.4 mg/l (fish) (OECD 203)
NOEC / 21d	32 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	18.6 mg/l (algae) (OECD 201)
EbC50 / 72h	72.8 mg/l (algae) (OECD 201)
131-57-7 Oxy	/benzone
EC50/48h	1.87 mg/l (daphnia) (OECD 202)
LC50/96h	3.8 mg/l (fish) (OECD 203)
ErC50 / 72 h	0.67 mg/l (algae) (OECD 201)
NOEC / 72h	0.18 mg/l (algae) (OECD 201)
NOEC / 96h	0.72 mg/l (fish) (OECD 203)
NOEC / 48h	1.15 mg/l (daphnia) (OECD 202)
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 12.2 Persistence 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 bismethacrylate

Biodegradation 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

109-16-0 triethylen glycol dimethacrylate

Biodegradation 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

131-57-7 Oxybenzone

Biodegradation 60-70 % /28d (not defined)

· 12.3 Bioaccumulative potential

131-57-7 Oxybenzone

Bloconcentration factor (BCF) >33-<160 (fish) (OECD 305)

· 12.4 Mobility in soil No further relevant information available.

- 12.5 Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse effects
 - Additional ecological information:
 - · General notes:

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

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	No	



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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.11.2022

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Not applicable.

Not applicable.

Void

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Trade name: Venus Diamond

[.] 14.6 Special precautions for user

· 14.7 Maritime transport in bulk according to

IMO instruments

· Transport/Additional information:

· UN "Model Regulation":

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH204 Contains isocyanates. May produce an allergic reaction.

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature 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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 * *** Data compared to the previous version altered.**

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