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

Printing date 20.01.2016

Version number 2

Revision: 19.01.2016

- 1.1 Product identifier
 - Trade name: iBOND Total Etch
- 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 bonding 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 4372522

Informing department: E-Mail: msds@kulzer-dental.com

1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

2.2 **建设设置的基本的基本的**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Irrit. 2

H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

STOT SE 3

H335 May cause respiratory irritation.

· 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



· Signal word Danger

Hazard-determining components of labelling: 2-hydroxyethyl methacrylate

glutaral 4-methacryloxyethyltrimellitic acid anhydride Hazard statements

Hazard statements
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Precautionary statements

ntements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
(Contd. on page 2)

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Trade name: iBOND Total Etch

(Contd. of page 1)

P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Store locked up.

Store locked up.

P405 • 2.3 Other hazards -

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

· Description: -		
· Dangerous components:		
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 2119457610-43-xxxx	ethanol Flam. Liq. 2, H225	25-50%
CAS: 868-77-9 EINECS: 212-782-2	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%
	Poly(methacrylic-oligo-acrylic acid) Eye Irrit. 2, H319	0-5%
CAS: 70293-55-9	4-methacryloxyethyltrimellitic acid anhydride Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	0-5%
CAS: 111-30-8 EINECS: 203-856-5	glutaral Acute Tox. 3, H301; Acute Tox. 3, H331; Resp. Sens. 1, H334; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Skin Sens. 1, H317	0-5%
CAS: 72869-86-4 EINECS: 276-957-5	diurethandimethacrylate Aquatic Chronic 3, H412	0-5%

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

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. Then consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Instantly call for doctor.

In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

(Contd. on page 3)

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Trade name: iBOND Total Etch

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. of page 2)

5.1 Extinguishing media

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 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. 5.3 Advice for firefighters

Protective equipment: Put on breathing apparatus.

Additional information -

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
Do not allow to enter the ground/soil.
No special measures required.

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 13 for information on disposal.
See Section 8 for information on personal protection equipment.

See Section 8 for information on personal protection equipment.

7.1 Precautions for safe handling

Keep containers 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.

· 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.

(Contd. on page 4)

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(Contd. of page 3)

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: 64-17-5 ethanol WEL Long-term value: 1920 mg/m³, 1000 ppm 111-30-8 glutaral WEL Short-term value: 0.2 mg/m³, 0.05 ppm Long-term value: 0.2 mg/m³, 0.05 ppm 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.

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

Breathing equipment: Breathing protection recommended.

Protection of hands:
If skin contact cannot be avoided, protective gloves are recommended to 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 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 cheefed prior to the application. 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
Nitrile rubber, NBR
Eye protection: not absolutely neccessary
Body protection: Light weight protective clothing

Control of the Contro 9.1 Information on basic physical and chemical properties General Information Appearance: Form: Fluid Colour: Yellowish (Contd. on page 5)

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Trade name: iBOND Total Etch

	(Contd. of page
· Smell: · Odour threshold:	Characteristic
	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined
Flash point:	24 °C
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	425 °C
Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
Critical values for explosion: Lower: Upper:	3.5 Vol % 15.0 Vol %
Steam pressure at 20 °C:	57 hPa
· Density · Relative density · Vapour density · Evaporation rate	Not determined Not determined. Not determined. Not determined.
· Solubility in / Miscibility with · Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity: dynamic: kinematic: 9.2 Other information	Not determined. Not determined. No further relevant information available.

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: -

(Contd. on page 6)

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Trade name: iBOND Total Etch

(Contd. of page 5)

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation Causes serious eye damage. Respiratory or skin sensitisation

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

May cause 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

May cause respiratory irritation.

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.

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.

12.6 Other adverse effects No further relevant information available.

13.1 Waste treatment methods

Recommendation

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

European waste catalogue

18 01 06 chemicals consisting of or containing dangerous substances

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

(Contd. on page 7)

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Trade name: iBOND Total Etch

(Contd. of page 6)

· 14.1 UN-Number · ADR, IMDG, IATA	1170
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1170 ETHANOL SOLUTION ETHANOL SOLUTION
14.3 Transport hazard class(es)	
· ADR	
· Class · Label	3 (F1) Flammable liquids. 3
IMDG, IATA	3
· Class · Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Kemler Number: EMS Number:	30 F-E,S-D
14.7 Transport in bulk according to Anne Marpol and the IBC Code	
Transport/Additional information:	-
UN "Model Regulation":	UN1170, ETHANOL (ETHYL ALCOHOL), 3, III.

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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Trade name: iBOND Total Etch

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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
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation. H317 May cause an allergic skin reaction. H317 May cause an allergic SKIN reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

https://doi.org/10.1006/j.com/press/ H400 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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

IATA: International Air Transport Association

GHS: Globally Hamonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPVB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 3: Acute toxicity, Hazard Category 1

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Respirat, Hazard Category 1

Skin Sens. 1: Sensitisation - Respirat, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

**Data compared to the previous version altered.

Aquatic Chronic 3: Hazardous to the aquatic environment * Data compared to the previous version altered.

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

Printing date 20.01.2016

Version number 2

Revision: 19.01.2016

- · 1.1 Product identifier
 - · Trade name: Venus Bulk Fill
- 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 4372522

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: Haza

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- 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



Signal word Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P362 Take off contaminated clothing and wash before reuse.

P322+P313 If skin irritation occurs: Get medical advise/attention

or a transfer of the

P332+P313 P337+P313 If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Additional information:

Contains triethylenglycoldimethacrylate. May produce an allergic reaction.

2.3 Other hazards -

Results of PBT and vPvB assessment PBT: Not applicable.

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Trade name: Venus Bulk Fill

· vPvB: Not applicable.

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SECTION 3: Count

3.2 Chemical characterisation: Mixtures

Description:

Dangerous components:

CAS: 13760-80-0 EINECS: 237-354-2 CAS: 109-16-0

Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 triethylenglycoldimethacrylate

10-25%

EINECS: 203-652-6

Reg.nr.: 01-2119969287-21-0000

Skin Sens. 1B, H317

vtterbium trifluoride

< 1%

SECTION 4: Flost and an

4.1 Description of first aid measures

General information No special measures required.

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.

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.

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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 a cultos (Presidentes de la companya de la companya

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

6.2 Environmental precautions: No special measures required.
6.3 Methods and material for containment and cleaning up: Collect mechanically.

6.4 Reference to other sections

See Section 13 for information on disposal.

See Section 8 for information on personal protection equipment.

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

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Trade name: Venus Bulk Fill

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SECTION 7: Han

- 7.1 Precautions for safe handling No special measures required.
 - 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 under dry conditions.
 - Store cool (not above 25 °C).
- 7.3 Specific end use(s) No further relevant information available.

SECTION & Exposure and Color of Colors of Colo

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

Wash hands during breaks and at the end of the 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

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 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: Safety glasses

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Trade name: Venus Bulk Fill

· Body protection: Light weight protective clothing

(Contd. of page 3)

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9.1 Information on basic physical at General Information	nd chemical properties
Appearance:	
Form:	Pasty
· Colour:	White
· Smell:	Yellowish
· Smeil: · Odour threshold:	Odourless Not determined
· pH-value:	Not determined.
	Not determined.
Change in condition Melting point/Melting range:	Not data main a d
Boiling point/Boiling range:	Not determined Not determined
· Flash point:	> 100 °C
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	1.9 g/cm³
Relative density	Not determined.
Vapour density Evaporation rate	Not determined. Not determined
	Not determined.
Solubility in / Miscibility with Water:	Not missible as difficult to miss
	Not miscible or difficult to mix
Partition coefficient (n-octanol/w	ater): Not determined.
Viscosity:	
dynamic:	Not determined.
kinematic: 9.2 Other information	Not determined.

SECULORY OF SECULO AND LOCATION SECULO AND SECURI AND SECULO AND S

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.
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Trade name: Venus Bulk Fill

- 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.3 Possibility of nazardous reactions in a 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: -

SECTION 11: Toxico

· 11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation

- Causes skin irritation.
 Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met. 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.

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.
- 12.6 Other adverse effects No further relevant information available.

SECTION SCOT

- · 13.1 Waste treatment methods
 - Recommendation Smaller quantities can be disposed with household garbage.
 - Uncleaned packagings:
 - Recommendation: Disposal must be made according to official regulations.

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Trade name: Venus Bulk Fill

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		Sant Zal
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	

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

- No further relevant information available.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H335 May cause respiratory irritation.

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

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 Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 1B

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Trade name: Venus Bulk Fill

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 * Data compared to the previous version altered.

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Revision: 19.01.2016

Mitsui Chemicais Group

SECTION 11 K

- · 1.1 Product identifier
 - · Trade name: Venus Diamond
- 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 4372522

· Informing department: E-Mail: msds@kulzer-dental.com

1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

SECULONICI II

2.1 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:

2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 -diyl)bis(methyleneiminocarbonyloxy-2,1ethanediyl) ester

triethylenglycoldimethacrylate

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 P321 Wear protective gloves/protective clothing/eye protection/face protection. Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of water.

2.3 Other hazards -Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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3.2 Chemical characterisation: No Description: -	Mixtures	
Dangerous components:		
CAS: 861437-11-8	2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5 - diyl)bis(methyleneiminocarbonyloxy-2,1-ethanediyl) ester Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-259
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-0000	triethylenglycoldimethacrylate Skin Sens. 1B. H317	0-5%

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

SECTION 4: Flusted Consideration 12:0

- 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: Fired

- 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 -

SECTION & Accidental editors in the survey of the section of the s

- 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

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See Section 8 for information on personal protection equipment. See Section 13 for information on disposal

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SECTION THEM

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 OF ECONOMIC PARTIES

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

Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the 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

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 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

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Nitrile rubber, NBR
• Eye protection: Safety glasses
• Body protection: Light weight protective clothing

SECTION OF PROPERTY AND ADMINISTRA	Wall books that the state of t
9.1 Information on basic physical an	d chemical properties
General Information	
· Appearance:	
Form:	Pasty
· Colour:	White
· Smell:	Yellowish Odourless
Odour threshold:	Not determined.
· pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined Not determined
· Flash point:	> 165 °C
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	2.23 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/wa	ater): Not determined.
· Viscosity:	
· dynamic:	Not determined.
kinematic:	Not determined.
9.2 Other information	No further relevant information available.

SECTION DESCRIPTION OF THE PROPERTY OF THE PRO

· 10.1 Reactivity No further relevant information available.

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· 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:

SECUCIONAL PROPERTY.

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.

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Respiratory or skin sensitisation

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.

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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:

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

Danger to drinking water if even small quantities leak into soil.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

· 12.6 Other adverse effects No further relevant information available.

13.1 Waste treatment methods

Recommendation

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

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Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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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 12: Resultation and the section of the sect

· 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 any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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

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

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vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 * Data compared to the previous version altered. (Contd. of page 6)

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