SAFETY DATA SHEETS

This SDS packet was issued with item:

074567558

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).

074565271 074565339 074565347 074565354 074567004 074567012 074567020 074567038 074567046 074567053 074567061 074567079 074567087 074567095 074567103 074567111 074567129 074567137 074567145 074567210 074567509 074567517 074567525 074567533 074567541 074567707 074567715 074567723 074567731 074567749 273004835 273004836

Heraeus Kulzer

Mitsui Chemicals Group

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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

Tel.: 0800 4372522

1 Identification

- · Product identifier
 - · Trade name: VENUS Diamond flow
- · 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

· 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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
 - GHS label elements

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

Hazard pictograms



- · Signal word Warning
- Hazard statements

Causes skin irritation.

Causes serious eye irritation.

· 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).

Take off contaminated clothing and wash before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye imitation persists: Get medical advice/attention.

Classification system

NFPA ratings for USA (scale 0-4)



Health = 0Fire = 1 Reactivity = 0

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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

Trade name: VENUS Diamond flow

· HMIS-Ratings (Scale 0-4)

HEALTH 0 Health = 0 1 Fire = 1 REACTIVITY | 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: Void

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

5 Fire-fighting measures

- Extinguishing media
 - Suitable extinguishing agents
 - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant
- 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

· Precautions for safe handling No special measures required.

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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

Trade name: VENUS Diamond flow

(Contd. of page 2)

- 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.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
 - Personal protective equipment
 - · General protective and hyglenic measures

The usual precautionary measures for handling chemicals should be followed.

- 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

· 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:

PVC or PE gloves

Natural rubber, NR

Eye protection:

Protective goggles are recommended.

Not absolutely necessary.

· Body protection: Light weight protective clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

· Appearance:

· Form: · Color:

Pasty White

· Odor:

Yellowish

Change in condition

- · Melting point/Melting range: undetermined
- · Boiling point/Boiling range: undetermined

· Flash point:

> 100 °C (> 212 °F)

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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

Trade name: VENUS Diamond flow

	(Contd. of page 3
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
Density at 20 °C (68 °F):	1.9 g/cm³ (15.856 lbs/gal)
Solubility in / Miscibility Water: Other information	with Not miscible or difficult to mix No further relevant information available.

10 Stability and reactivity

- · Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: none
 - 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: 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

. 14	ARC (International Agency for Research on Cancer)	
7631-86-9	silicon dioxide, chemically prepared	3
	Butyl-hydroxy-toluol	3
· N	TP (National Toxicology Program)	
None of the	e ingredients is listed.	
. 0	SHA-Ca (Occupational Safety & Health Administration)	
None of the	e ingredients is listed.	

12 Ecological information

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
 - Additional ecological information:
- · General notes: Avoid transfer into the environment. · Results of PBT and vPvB assessment
- - · PBT: Not applicable.
 - · vPvB: Not applicable.

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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

Trade name: VENUS Diamond flow

(Contd. of page 5)

· Signal word Warning

· Hazard statements

Causes skin irritation.

Causes serious eye irritation.

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).
Take off contaminated clothing and wash before reuse.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

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

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 05/12/2015 / -

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists

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)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
* Data compared to the previous version altered.

USA



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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

Trade name: VENUS Diamond flow

· Other adverse effects No further relevant information available.

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13 Disposal considerations

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

Void

Void

Void

No

Not applicable.

Void

14 Transport information · UN-Number DOT, ADR, ADN, IMDG, IATA UN proper shipping name DOT, ADR, ADN, IMDG, IATA

- Transport hazard class(es)
 - DOT, ADR, ADN, IMDG, IATA · Class
- · Packing group · DOT, ADR, IMDG, IATA
- · Environmental hazards:
 - Marine pollutant:
- · Special precautions for user Not applicable.
- · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
 - · 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)

Butyl-hydroxy-toluol

GHS label elements

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

· Hazard pictograms



GHS07

(Contd. on page 6)

A4



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

Tel.: +49 (0)800 4372522

1 Identification

- · Product identifier
 - · Trade name: VENUS Diamond flow
 - · Application of the substance / the mixture Dental filling material
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

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)

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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
 - GHS label elements

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

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements

Wear protective gloves.

Wear 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.

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



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

Trade name: VENUS Diamond flow

· HMIS-Ratings (Scale 0-4)

HEALTH 1
FIRE 1
REACTIVITY 0

Health = 1 Fire = 1 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:	
13760-80-0 ytterbium trifluoride	10-25%
Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
109-16-0 triethylen glycol dimethacrylate	< 1%
Skin Sens. 1B, H317	

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.

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.

(Contd. on page 3)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: VENUS Diamond flow

· Additional information -

(Contd. of page 2)

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.

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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.

- 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.
 - · 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 (Contd. on page 4)

USA



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Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/03/2017 Printing date 06/03/2017

Trade name: VENUS Diamond flow

(Contd. of page 3)

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 books abusined and the	ancical muonautica
Information on basic physical and che General Information	emicai properties
· Appearance:	
Form:	Pastv
· Color:	White
	Yellowish
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
· Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined
· Flash point:	> 100 °C (> 212 °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):	1.9 g/cm³ (15.856 lbs/gal)
· Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix

(Contd. on page 5)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: VENUS Diamond flow

(Contd. of page 4)

- · Partition coefficient (n-octanol/water): Not determined.
- · Viscosity:
 - · dynamic: Not determined. · kinematic: Not determined.
- Other information
 No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: none
- · Additional information: -

11 Toxicological information

- · Information on toxicological effects
 - · Acute toxicity:

Aou	ic toxi	ony.	
· L	D/LC5	0 values that are relevant for classification:	
56744-6	60-6 Bi	sphenol-A-ethoxylat(4)dimethacrylat	
Oral	Oral LD50 >2000 mg/kg (rat)		
41137-60-4 diurethandimethacrylate			
Oral	LD50	>5000 mg/kg (rat)	
109-16-0 triethylen glycol dimethacrylate			
Oral	LD50	> 5000 mg/kg (rat)	
Dermal	LD50	> 2000 mg/kg (mouse)	

- 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

-	mogerno categorico	
· 14	ARC (International Agency for Research on Cancer)	
7631-86-9	silicon dioxide, chemically prepared	3
	Butyl-hydroxy-toluol	3
· N	TP (National Toxicology Program)	

None of the ingredients is listed.

(Contd. on page 6)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

Trade name: VENUS Diamond flow

(Contd. of page 5)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
 - · Aquatic toxicity:

109-16-0 triethylen glycol dimethacrylate

EC50/72h > 100 mg/l (algae)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
 - · Mobility in soil No further relevant information available.
- · Additional ecological information:
 - · General notes: Avoid transfer into the environment.
- · 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 Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.

14 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
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	
		(Contd. on page 7

(Contd. on page 7)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: VENUS Diamond flow

		(Contd. of page 6)
· Special precautions for user	Not applicable.	
 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code 	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
 - · 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)

Butyl-hydroxy-toluol

A4

· GHS label elements

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

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements Wear protective gloves.

Wear 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.

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

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H315 Causes skin irritation.

(Contd. on page 8)



Safety Data Sheet acc. to OSHA HCS

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Printing date 06/03/2017

Reviewed on 06/03/2017

Trade name: VENUS Diamond flow

(Contd. of page 7)

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· Date of preparation / last revision 06/03/2017 / 2

Date of preparation / last revision 06/03/2017 / 2
 Abbreviations and acronyms:
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 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)

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

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1B: Skin sensitisation – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

USA



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

1 Identification

- · Product identifier
 - · Trade name: Venus Temp 2
 - · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522

· 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)

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

The product is not classified according to the Globally Harmonized System (GHS).

- · Label elements
 - · GHS label elements Void
 - · Hazard pictograms Void
 - · Signal word Void
 - · Hazard statements Void
- · Classification system
 - · NFPA ratings for USA (scale 0-4)



Health = 0 Fire = 0 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 0 Fire = 0 Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - · **Description:** Composition based on methacrylates
 - Dangerous components: Void

USA

(Contd. on page 2)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: Venus Temp 2

(Contd. of page 1)

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.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

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.

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

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Dispose of the collected material according to regulations.

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

Reference to other sections

See Section 7 for information on safe handling

See Section 13 for disposal information.

7 Handling and storage

- · Handling
 - · Precautions for safe handling

Wear protective equipment. Keep unprotected persons away.

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

Store in cool, dry place in tightly closed receptacles.

- 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: Protect from exposure to the light.
 - Information about storage in one common storage facility: Store away from foodstuffs.
 - Further information about storage conditions: Store in dry conditions.
 - · Recommended storage temperature: <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.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
 - Personal protective equipment
 - General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands:

Impervious 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.

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: Protective goggles are recommended.
- · Body protection: Light weight protective clothing

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Information on basic physical and cl	hemical properties	
· General Information		
· Appearance: · Form:	Pasty	
· Color:	Various colors	
· Odor:	Nearly odorless	
· Odor threshold:	Not determined.	
· pH-value:	Neutral	
· Change in condition		
· Melting point/Melting range:	undetermined	
· Boiling point/Boiling range:	undetermined	
· Flash point:	Not applicable	
· 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):	1.52 g/cm³ (12.684 lbs/gal)	
Relative density	Not determined.	
· Vapor density	Not determined.	
Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity:		
· dynamic:	Not determined.	
· kinematic:	Not determined.	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: none

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· Additional information: -

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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: No sensitizing effects known.
 - · Additional toxicological information:

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
 - · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
 - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
 - · Mobility in soil No further relevant information available.
- · Additional ecological information:
 - · General notes: Avoid transfer into the environment.
- · 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 Smaller quantities can be disposed of with household waste.
- Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.

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14 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADN, IMDG, IATA · ADR	Void 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	II 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
 - · 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)

None of the ingredients is listed.

- · GHS label elements Void
 - Hazard pictograms Void
 - Signal word Void
 - · Hazard statements Void
- · 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 06/03/2017 / 2
- · 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)

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IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit