# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 070407668

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

077061922

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).

070407650 070407684 077061963

10-25%

5-10%

5-10%

#### Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 04/06/2009

Reviewed on 04/06/2009

#### 1 Identification of substance

· Product details

· Trade name: Ufi Gel hard C base

· Application of the substance / the preparation Direct hard relining material

· Manufacturer/Supplier: Voco GmbH Anton-Flettner-Str. 1-3 D-27472 Cuxhaven

· Information department: Scientific department Emergency information: Scientific department tel. +49 (0) 4721 7190

#### 2 Composition/Data on components

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

	Dangerous	components:	
--	-----------	-------------	--

1565-94-2 BIS-GMA 6606-59-3 HEDMA

72869-86-4 Urethanedimethacrylate

#### **3 Hazards identification**

· Hazard description:

Irritant

Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of international guidelines.

Irritating to eyes and skin. Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)

n

FIRE

Health = 1Fire = 0Reactivity = 0

HMIS-ratings (scale 0 - 4)

IEALTH 1 Health = 1 0 Fire = 0REACTIVITY 0 Reactivity = 0

#### 4 First aid measures

· After inhalation: Seek medical treatment in case of complaints.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: If symptoms persist consult doctor.

# 5 Fire fighting measures

Suitable extinguishing agents: Use fire fighting measures that suit the environment. Protective equipment: No special measures required.

(Contd. on page 2)

USA

Printing date 04/06/2009

Reviewed on 04/06/2009

Trade name: Ufi Gel hard C base

(Contd. of page 1)

#### 6 Accidental release measures

- · Person-related safety precautions: Not required.
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting: Pick up mechanically.

#### 7 Handling and storage

- · Handling:
- Information for safe handling: For dental use only.
- Information about protection against explosions and fires: No special measures required.
- Storage:
- Requirements to be met by storerooms and receptacles:
- No special requirements.
- See storage instructions on package
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.

#### 8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- 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.
- Personal protective equipment:
- · General protective and hygienic measures:
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Protection of hands:



Protective gloves

#### 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.

· Eye protection: Safety glasses

# 9 Physical and chemical properties

#### **General Information**

Form: Color: Odor: Pasty Light red Characteristic

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Printing date 04/06/2009

Reviewed on 04/06/2009

Trade name: Ufi Gel hard C base

		(Contd. of page 2
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.	
Flash point:	Not applicable.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Density:	Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	

#### 10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known.
- · Dangerous products of decomposition: No dangerous decomposition products known.

# **11** Toxicological information

- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

# 12 Ecological information

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system. Harmful to aquatic organisms

# 13 Disposal considerations

Product:

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

#### 14 Transport information

• DOT regulations: • Hazard class:

(Contd. on page 4)

(Contd. of page 3)

#### Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 04/06/2009

Reviewed on 04/06/2009

Trade name: Ufi Gel hard C base

- Land transport ADR/RID (cross-border):

ADR/RID class: -

Maritime transport IMDG:

- IMDG Class: -- Marine pollutant: No

Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class; -

# **15 Regulations**

#### Sara

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

1565-94-2 BIS-GMA

Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

Contact Voco for more informations

· Cancerogenity categories

• EPA (Environmental Protection Agency)

Contact Voco for more information

IARC (International Agency for Research on Cancer)

Contact Voco for more information

• NTP (National Toxicology Program) Contact Voco for more informations

TLV (Threshold Limit Value established by ACGIH)

Contact Voco for more Information

NIOSH-Ca (National Institute for Occupational Safety and Health)

Contact Voco for more information

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Canadian substance listings:
Canadian Domestic Substances List (DSL)

Contact Voco for more informations

Canadian Ingredient Disclosure list (limit 0.1%)

Contact Voco for more informations

· Canadian Ingredient Disclosure list (limit 1%)

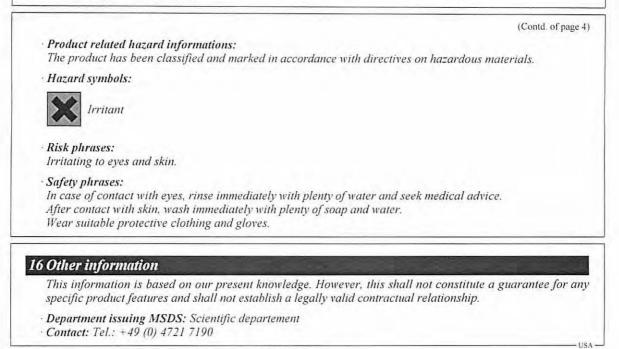
Contact Voco for more informations

(Contd. on page 5)

Printing date 04/06/2009

Reviewed on 04/06/2009

Trade name: Ufi Gel hard C base



10-25%

5-10%

5-10%

#### Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 04/06/2009

Reviewed on 04/06/2009

#### 1 Identification of substance

Product details

· Trade name: Ufi Gel hard C catalyst

Application of the substance / the preparation Direct hard relining material

Manufacturer/Supplier: Voco GmbH Anton-Flettner-Str. 1-3 D-27472 Cuxhaven

Information department: Scientific department Emergency information: Scientific department tel. +49 (0) 4721 7190

#### 2 Composition/Data on components

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

1565-94-2 BIS-GMA 6606-59-3 HEDMA

72869-86-4 Urethanedimethacrylate

#### 3 Hazards identification

Hazard description:

Irritant

· Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of international guidelines. Irritating to eyes and skin.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)

100 Health = 1 Fire = 0 Reactivity

Reactivity = 0 HMIS-ratings (scale 0 - 4)

HEALTH I Health = 1FIRE Fire = 0REACTIVITY Reactivity = 0

#### 4 First aid measures

· After inhalation: Seek medical treatment 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. If symptoms persist, consult a doctor. After swallowing: If symptoms persist consult doctor.

#### 5 Fire fighting measures

Suitable extinguishing agents: Use fire fighting measures that suit the environment. Protective equipment: No special measures required.

(Contd on page 2)

USA

Printing date 04/06/2009

Reviewed on 04/06/2009

Trade name: Ufi Gel hard C catalyst

(Contd. of page 1)

## 6 Accidental release measures

- Person-related safety precautions: Not required.
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting: Pick up mechanically.

#### 7 Handling and storage

- Handling:
- Information for safe handling: For dental use only.
- Information about protection against explosions and fires: No special measures required.
- Storage:
- Requirements to be met by storerooms and receptacles: See storage instructions on package
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.

#### 8 Exposure controls and personal protection

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

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.

Personal protective equipment:

General protective and hygienic measures: Avoid contact with the eyes and skin. Protection of hands:



Protective gloves

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.

Eye protection: Safety glasses

<b>General Information</b>		
Form:	Pasty	
Color:	Colorless	
Odor:	Characteristic	
Change in condition		
Melting point/Melting	range: Undetermined.	
Boiling point/Boiling	range: Undetermined.	
Flash point:	Not applicable.	
Auto igniting:	Product is not selfigniting.	

Printing date 04/06/2009

Reviewed on 04/06/2009

(Contd. of page 2)

Trade name: Ufi Gel hard C catalyst

· Danger of explosion:

Density:

Water:

Product does not present an explosion hazard. Not determined.

Solubility in / Miscibility with

Not miscible or difficult to mix.

# 10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Dangerous reactions No dangerous reactions known.
- Dangerous products of decomposition: No dangerous decomposition products known.

#### 11 Toxicological information

- Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Irritant

# 12 Ecological information

- General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system. Harmful to aquatic organisms

# **13 Disposal considerations**

· Product:

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

# 14 Transport information

Land transport ADR/RID (cross-border): ADR/RID class: -

Maritime transport IMDG:

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: -

(Contd on page 4)

-USA

Printing date 04/06/2009

Reviewed on 04/06/2009

Trade name: Ufi Gel hard C catalyst

(Contd. of page 3)

Sara	
CHARACTER IN CONTRACTOR	tremely hazardous substances):
	redients is listed.
Section 313 (St	necific toxic chemical listings):
benzoyl peroxya	
	ubstances Control Act):
1565-94-2 BIS	
Proposition 65	
	wn to cause cancer:
	edients is listed.
Chemicals know	vn to cause reproductive toxicity for females:
	redients is listed.
Chemicals know	vn to cause reproductive toxicity for males:
	edients is listed.
	vn to cause developmental toxicity:
	r more informations
Cancerogenity	
	nental Protection Agency)
Contact Voco fe	r more information
IARC (Internat	ional Agency for Research on Cancer)
	r more information
NTP (National	Toxicology Program)
	r more informations
TLV (Threshold	I Limit Value established by ACGIH)
	r more Information
	tional Institute for Occupational Safety and Health)
	r more information
	upational Safety & Health Administration)
	redients is listed.
Canadian subsi	
	estic Substances List (DSL)
Contact Voco fo	r more informations
Canadian Ingra	edient Disclosure list (limit 0.1%)
Contact Voco fo	or more informations
Canadian Ingra	edient Disclosure list (limit 1%)
	r more informations
	hazard informations: been classified and marked in accordance with directives on hazardous materials.
Hazard symbol	<i>::</i>
Irritant	
Risk phrases: Irritating to eye	s and skin

Printing date 04/06/2009

Reviewed on 04/06/2009

# Trade name: Ufi Gel hard C catalyst

(Contd. of page 4)

USA

Safety phrases:

In case of contact with eyes, vinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing and gloves.

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Scientific departement Contact: Tel.: +49 (0) 4721 7190

50-100%

2.5-5%

#### Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 03/18/2009

Reviewed on 03/18/2009

#### 1 Identification of substance

· Product details

· Trade name: Ufi Gel hard C adhesive · Application of the substance / the preparation Adhesive

Manufacturer/Supplier: Voco GmbH Anton-Flettner-Str. 1-3 D-27472 Cuxhaven

Information department: Scientific department · Emergency information: Scientific department tel. +49 (0) 4721 7190

#### 2 Composition/Data on components

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

67-64-1 acetone

868-77-9 2-hydroxyethyl methacrylate

#### **3 Hazards identification**

· Hazard description:

Irritant

Highly flammable

- Information pertaining to particular dangers for man and environment:
- The product has to be labelled due to the calculation procedure of international guidelines. Highly flammable.

Irritating to eyes.

May cause sensitization by skin contact.

Vapours may cause drowsiness and dizziness.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)

Health = 1Fire = 3

Reactivity = 0HMIS-ratings (scale 0 - 4)

 $\blacksquare$  Health = 1

3 Fire = 3REACTIVITY Reactivity = 0

#### 4 First aid measures

FIRE

- After inhalation: Seek medical treatment in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: If symptoms persist consult doctor.

#### 5 Fire fighting measures

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water. · For safety reasons unsuitable extinguishing agents: Water with full jet

(Contd. on page 2) USA

Printing date 03/18/2009

Reviewed on 03/18/2009

(Contd. of page 1)

Trade name: Ufi Gel hard C adhesive

Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Person-related safety precautions: Wear protective clothing.
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

#### 7 Handling and storage

- Handling:
- Information for safe handling: For dental use only.
- Information about protection against explosions and fires: Keep ignition sources away Do not smoke.

Storage:

- Requirements to be met by storerooms and receptacles: See storage instructions on package
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

#### 8 Exposure controls and personal protection

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

#### Components with limit values that require monitoring at the workplace:

67-64-1 acetone

- PEL 2400 mg/m<sup>3</sup>, 1000 ppm
- REL 590 mg/m<sup>3</sup>, 250 ppm
- TLV Short-term value: 1782 mg/m<sup>3</sup>, 750 ppm Long-term value: 1188 mg/m<sup>3</sup>, 500 ppm BEI

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

· Personal protective equipment:

- General protective and hygienic measures:
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

#### 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.

(Contd. on page 3)

(Contd. of page 2)

#### Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 03/18/2009

Reviewed on 03/18/2009

Trade name: Ufi Gel hard C adhesive

· Eye protection: Safety glasses

General Information	
Form: Color: Odor:	Fluid Colorless Characteristic
Change in condition Melting point/Melting range: Boiling point/Boiling range:	
Flash point:	-19°C (-2°F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Density at 20°C (68°F):	0.8 g/cm <sup>3</sup>
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.

## 10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. • Dangerous reactions No dangerous reactions known.

Dangerous products of decomposition: No dangerous decomposition products known.

# 11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

67-64-1 acetone

Oral LD50 5800 mg/kg (rat)

Dermal LD50 20000 mg/kg (rabbit)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

# 12 Ecological information

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Contd. on page 4)

-USA

Printing date 03/18/2009

Reviewed on 03/18/2009

Trade name: Ufi Gel hard C adhesive

(Contd. of page 3)

# 13 Disposal considerations

· Product:

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 DOT regulations: · Hazard class: 3 UN1090 Identification number: · Packing group: II· Proper shipping name (technical name): ACETONE, mixture · Label 3 · Land transport ADR/RID (cross-border): · ADR/RID class: 3 Flammable liquids Danger code (Kemler): 33 UN-Number: 1090 Packaging group: II3 · Label: 1090 ACETONE, mixture Description of goods: · Maritime transport IMDG: · IMDG Class: 3 1090 UN Number: 3 ·Label · Packaging group: II F-E,S-D· EMS Number: No • Marine pollutant: ACETONE, mixture Propper shipping name: Air transport ICAO-TI and IATA-DGR: 3 · ICAO/IATA Class: 1090 · UN/ID Number: 3 ·Label 11 · Packaging group: ACETONE, mixture Propper shipping name: USA

(Contd. on page 5)

Printing date 03/18/2009

Reviewed on 03/18/2009

## Trade name: Ufi Gel hard C adhesive

(Contd. of page 4)

Sara	
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
Contact Voco for more informations	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
Contact Voco for more information	
IARC (International Agency for Research on Cancer)	
Contact Voco for more information	
NTP (National Toxicology Program)	
Contact Voco for more informations	
TLV (Threshold Limit Value established by ACGIH)	
Contact Voco for more Information	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
Contact Voco for more information	
OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
Canadian substance listings:	
Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
Canadian Ingredient Disclosure list (limit 0.1%)	
Contact Voco for more informations	
Canadian Ingredient Disclosure list (limit 1%)	
All ingredients are listed.	
<b>Product related hazard informations:</b> The product has been classified and marked in accordance with directives on ha	azardous materials.
Hazard symbols:	
Irritant Highly flammable	
n	
Hazard-determining components of labelling: 2-hydroxyethyl methacrylate	

Printing date 03/18/2009

Reviewed on 03/18/2009

#### Trade name: Ufi Gel hard C adhesive

(Contd. of page 5)

USA

Risk phrases: Highly flammable. Irritating to eyes. May cause sensitization by skin contact. Vapours may cause drowsiness and dizziness.

Safety phrases: Keep away from sources of ignition - No smoking. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. Wear suitable gloves. In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Scientific departement Contact: Tel.: +49 (0) 4721 7190

Printing date 09/14/2016

Reviewed on 09/14/2016

# **1 Identification**

- · Product identifier
- · Trade name: Ufi Gel hard C base
- · Application of the substance / the mixture Direct hard relining material
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: VOCO GmbH Anton-Flettner-Str. 1-3 D-27472 Cuxhaven

- Information department: Scientific department tel. +49 (0)4721-719-0
- Emergency telephone number: Scientific department tel. +49 (0)4721-719-0

# 2 Hazard(s) identification

Health effects are based on the unmixed/uncured material. Under FDA regulations this product is classified as a medical device. Medical devices are exempt from the labelling provisions of GHS according to the Hazard Communication Standard (HCS). · Classification of the substance or mixture Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. Eye Irrit. 2B H320 Causes eye irritation. · Label elements · Hazard pictograms GHS07 · Signal word Warning · Hazard statements Causes skin and eye irritation. May cause an allergic skin reaction. · 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. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. Dispose of contents/container in accordance with local/regional/national/international regulations. · Other hazards Use only for intended scope of application None · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

# 3 Composition/information on ingredients

	haracterization: Mixtures 1: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous	components:	
1565-94-2	BIS GMA	10-25%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
	(Conto	l. on page 2)

Printing date 09/14/2016

Reviewed on 09/14/2016

Trade name: Ufi Gel hard C base

6606-59-3 1,6-hexanediylbismethacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 (Contd. of page 1)

# 5-10%

# 4 First-aid measures

- · Description of first aid measures
- After inhalation: Seek medical treatment 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. If symptoms persist, consult a doctor.
- After swallowing: 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: 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.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · 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 For dental use only.
- · 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: See storage instructions on package
- 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.

(Contd. on page 3)

Printing date 09/14/2016

Reviewed on 09/14/2016

(Contd. of page 2)

Trade name: Ufi Gel hard C base

- · Control parameters
- $\cdot$  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: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

· Protection of hands:



Protective gloves

#### · 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.

· Eye protection: Safety glasses

<b>T</b> C (* 1 * 1 * 1	
Information on basic physical of General Information	ind chemical properties
Appearance:	
Form:	Pasty
Color:	Light red
Odor:	Characteristic
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
Flash point:	Not applicable.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Density:	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.

# **10 Stability and reactivity**

· Reactivity No further relevant information available.

· Chemical stability

• *Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.* 

(Contd. on page 4)

Printing date 09/14/2016

Reviewed on 09/14/2016

(Contd. of page 3)

Trade name: Ufi Gel hard C base

- · 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: No dangerous decomposition products known.

# **11 Toxicological information**

· Information on toxicological effects

· Acute toxicity:

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- $\cdot$  Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (In	ternational Agency for Research on Cancer)	
	PMMA 3	;
128-37-0	2,6-di-tert-butyl-p-cresol 3	;
· NTP (Nat	tional Toxicology Program)	٦
None of th	he ingredients is listed.	
· OSHA-Ca	a (Occupational Safety & Health Administration)	٦
None of th	he 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:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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.

(Contd. on page 5)

Printing date 09/14/2016

Reviewed on 09/14/2016

(Contd. of page 4)

Trade name: Ufi Gel hard C base

· Uncleaned packagings:

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

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	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	Void	

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

• Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients are listed

· TLV (Threshold Limit Value established by ACGIH)

Contact VOCO for more information.

(Contd. on page 6)

Printing date 09/14/2016

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Reviewed on 09/14/2016

Trade name: Ufi Gel hard C base

	(Contd. of page
NIOSH-Ca (Nationd	al Institute for Occupational Safety and Health)
None of the ingredie	nts are listed
GHS label elements	
The product is classi	fied and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms	
Signal word Warnin	
Hazard statements	8
Causes skin and eye	irritation
May cause an allerg	
•	
Precautionary stater	
	ves/protective clothing/eye protection/face protection.
	tiously with water for several minutes. Remove contact lenses, if present and easy to d
Continue rinsing.	
	urs: Get medical advice/attention.
	ists: Get medical advice/attention.
IF ON SKIN: Wash w	
Dispose of contents/o	container in accordance with local/regional/national/international regulations.
<b>Other informatio</b>	n en
The information con	tained herein is based on our present knowledge and is believed to be correct at the da
issued. The inform	ation is subject to change without notice. However, all information, statement
	suggestions shall not constitute any guarantee, representation or warranty, expressed
recommendations or	suggestions shall not constitute any guarantee, representation of man any, expressed (
implied	
	whether the product is fit and suitable for a particular numeros and the user's method
Final determination	
Final determination	whether the product is fit and suitable for a particular purpose and the user's method the sole responsibility of the user.
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