# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 077061922

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

070407650 070407668 070407684 077061260

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).

077061963

Printing date 10/21/2019

Reviewed on 10/21/2019

# **1** Identification

· Product identifier

- Trade name: <u>Ufi Gel hard C base</u>
- · 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

• Chemical characterization: Mixtures

 $\cdot$  **Description:** Mixture of the substances listed below with nonhazardous additions.

# · Dangerous components:

1565-94-2 BIS GMA Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317

(Contd. on page 2)

10-25%

US -

Printing date 10/21/2019

Reviewed on 10/21/2019

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)

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Reviewed on 10/21/2019

Trade name: Ufi Gel hard C base

(Contd. of page 2)

- · 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: 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

Information on basic physical General Information	and chemical properties
Appearance:	
Form:	Pasty
Color:	Light red
Odor:	Characteristic
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	
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.

<sup>(</sup>Contd. on page 4)

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(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.
- 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)	
None of th	ne ingredients is listed.	
· OSHA-Co	a (Occupational Safety & Health Administration)	
N. C.	the transmission of the second s	

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:

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.

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Printing date 10/21/2019

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(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)

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Reviewed on 10/21/2019

Trade name: Ufi Gel hard C base

	(Contd. of page
NIOSH-Ca (N	National Institute for Occupational Safety and Health)
None of the in	gredients are listed
GHS label ele	ments
The product is	classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictog	
Signal word W	
Hazard staten	
	nd eye irritation.
	allergic skin reaction.
Precautionary	
	ve gloves/protective clothing/eye protection/face protection.
	se cautiously with water for several minutes. Remove contact lenses, if present and easy to d
Continue rinsi	
	on occurs: Get medical advice/attention.
	n persists: Get medical advice/attention.
	Wash with plenty of water.
Dispose of con	ntents/container in accordance with local/regional/national/international regulations.
<b>Other infor</b>	mation
issued. The i recommendati implied. Final determin	on contained herein is based on our present knowledge and is believed to be correct at the da nformation is subject to change without notice. However, all information, statement ons or suggestions shall not constitute any guarantee, representation or warranty, expressed nation whether the product is fit and suitable for a particular purpose and the user's method tion is the sola responsibility of the user
use or applica	tion is the sole responsibility of the user.
Department is	suing SDS: Scientific department
Department is Contact: Tel.:	suing SDS: Scientific department +49 (0)4721-719-0
Department is Contact: Tel.: Date of prepa	suing SDS: Scientific department +49 (0)4721-719-0 ration / last revision: 10/21/2019 / 5
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Department is Contact: Tel.: Date of prepar Abbreviations ADR: Accord eur	suing SDS: Scientific department +49 (0)4721-719-0 ration / last revision: 10/21/2019 / 5 and acronyms: opéen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
Department is Contact: Tel.: Date of prepar Abbreviations ADR: Accord eur Carriage of Dang IMDG: Internatio	suing SDS: Scientific department +49 (0)4721-719-0 ration / last revision: 10/21/2019 / 5 and acronyms: opéen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation erous Goods by Road) nal Maritime Code for Dangerous Goods
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Department is Contact: Tel.: Date of prepar Abbreviations ADR: Accord eur Carriage of Dang IMDG: Internation DOT: US Departn IATA: Internation ACGIH: American EINECS: Europea ELINCS: Europea CAS: Chemical A PBT: Persistent, F vPvB: very Persis	ssuing SDS: Scientific department +49 (0)4721-719-0 ration / last revision: 10/21/2019 / 5 and acronyms: opéen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation erous Goods by Road) nal Maritime Code for Dangerous Goods nent of Transportation al Air Transport Association n Conference of Governmental Industrial Hygienists in Inventory of Existing Commercial Chemical Substances in List of Notified Chemical Substances bstracts Service (division of the American Chemical Society) Bioaccumulative and Toxic tent and very Bioaccumulative
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Department is Contact: Tel.: Date of prepar Abbreviations ADR: Accord eur Carriage of Dang IMDG: Internation DOT: US Departn IATA: Internation ACGIH: American EINECS: Europea CAS: Chemical An PBT: Persistent, E VPVB: very Persis NIOSH: National OSHA: Occupatio	ssuing SDS: Scientific department +49 (0)4721-719-0 ration / last revision: 10/21/2019 / 5 and acronyms: opéen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation erous Goods by Road) nal Maritime Code for Dangerous Goods nent of Transportation al Air Transport Association n Conference of Governmental Industrial Hygienists an Inventory of Existing Commercial Chemical Substances in List of Notified Chemical Substances bstracts Service (division of the American Chemical Society) Bioaccumulative and Toxic tent and very Bioaccumulative Institute for Occupational Safety mal Safety & Health
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Department is Contact: Tel.: Date of prepar Abbreviations ADR: Accord eur Carriage of Dang IMDG: Internatio DOT: US Departn IATA: Internation ACGIH: American EINECS: Europea ELINCS: Europea CAS: Chemical Au PBT: Persistent, E vPvB: very Persis NIOSH: National OSHA: Occupatio TLV: Threshold L PEL: Permissible REL: Recommend Skin Irrit. 2: Skin Eye Irrit. 2A: Seri	ssuing SDS: Scientific department +49 (0)4721-719-0 ration / last revision: 10/21/2019 / 5 and acronyms: opéen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation erous Goods by Road) nal Maritime Code for Dangerous Goods nent of Transport Association al Air Transport Association n Conference of Governmental Industrial Hygienists in Inventory of Existing Commercial Chemical Substances bistracts Service (division of the American Chemical Society) Sioaccumulative and Toxic tent and very Bioaccumulative Institute for Occupational Safety mal Safety & Health imit Value Exposure Limit ed Exposure Limit ed Exposure Limit corrosion/irritation – Category 2 fous eye damage/eye irritation – Category 2A
Department is Contact: Tel.: Date of prepar Abbreviations ADR: Accord eur Carriage of Dang IMDG: Internatio DOT: US Departi IATA: Internation ACGIH: American EINECS: Europea CAS: Chemical AU PBT: Persistent, E vPvB: very Persis NIOSH: National OSHA: Occupatio TLV: Threshold L PEL: Permissible REL: Recommend Skin Irrit. 2: Skin Eye Irrit. 2A: Seri Eye Irrit. 2B: Seri	ssuing SDS: Scientific department +49 (0)4721-719-0 ration / last revision: 10/21/2019 / 5 and acronyms: opéen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation erous Goods by Road) nal Maritime Code for Dangerous Goods nent of Transport Association al Air Transport Association n Conference of Governmental Industrial Hygienists in Inventory of Existing Commercial Chemical Substances m List of Notified Chemical Substances bstracts Service (division of the American Chemical Society) Bioaccumulative and Toxic tent and very Bioaccumulative Institute for Occupational Safety mal Safety & Health imit Value Exposure Limit ed Exposure Limit ed Exposure Limit corrosion/irritation – Category 2 jous eye damage/eye irritation – Category 2A jous eye damage/eye irritation – Category 2B
Department is Contact: Tel.: Date of prepar Abbreviations ADR: Accord eur Carriage of Dang IMDG: Internatio DOT: US Departu IATA: Internation ACGIH: Americau EINECS: Europea CAS: Chemical AL PBT: Persistent, F vPvB: very Persis NIOSH: National OSHA: Occupatio TLV: Threshold L PEL: Permissible REL: Recommend Skin Irrit. 2: Skin Eye Irrit. 2B: Seri Skin Sens. 1: Skin	ssuing SDS: Scientific department +49 (0)4721-719-0 ration / last revision: 10/21/2019 / 5 and acronyms: opéen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation erous Goods by Road) nal Maritime Code for Dangerous Goods nent of Transport Association al Air Transport Association n Conference of Governmental Industrial Hygienists in Inventory of Existing Commercial Chemical Substances bistracts Service (division of the American Chemical Society) Sioaccumulative and Toxic tent and very Bioaccumulative Institute for Occupational Safety mal Safety & Health imit Value Exposure Limit ed Exposure Limit ed Exposure Limit corrosion/irritation – Category 2 fous eye damage/eye irritation – Category 2A

Printing date 10/21/2019

Reviewed on 10/21/2019

# **1** Identification

· Product identifier

- Trade name: Ufi Gel hard C catalyst
- · 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
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
1565-94-2		10-25%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
6606-59-3	1,6-hexanediylbismethacrylate	5-10%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
	(Conto	l. on page 2)

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Trade name: Ufi Gel hard C catalyst

(Cont	d. of page 1)
benzoyl peroxyde	<i>≤</i> 2.5%
Org. Perox. B, H241	
<i>Eye Irrit. 2A, H319; Skin Sens. 1, H317</i>	

# 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 10/21/2019

Reviewed on 10/21/2019

Trade name: Ufi Gel hard C catalyst

(Contd. of page 2)

- · 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: 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

# 9 Physical and chemical properties

<ul> <li>Information o</li> </ul>	on basic physical	and chemical	properties
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· General Information

Pasty
Colorless
Characteristic
Not determined.
: Undetermined. Undetermined.
Not applicable.
Product is not selfigniting.
Product does not present an explosion hazard.
Not determined.
Not miscible or difficult to mix.
Not determined.
Not determined.
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.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.

• *Incompatible materials:* No further relevant information available.

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· 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.
- · 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)	
	РММА	3
	benzoyl peroxyde	3
128-37-0	2,6-di-tert-butyl-p-cresol	3
· NTP (Nat	tional Toxicology Program)	
None of th	he ingredients is listed.	
· OSHA-C	a (Occupational Safety & Health Administration)	
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 product 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: Disposal must be made according to official regulations.*
- · Uncleaned packagings:
- *Recommendation: Disposal must be made according to official regulations.*

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Transport information		
· UN-Number · ADR, IATA	Void	
· UN proper shipping name · ADR, IATA	Void	
· Transport hazard class(es)		
· ADR, IATA · Class	Void	
· Packing group · ADR, IATA	Void	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	l of Not applicable.	

# **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):

benzoyl peroxyde

• 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.

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

None of the ingredients are listed

GHS label elements

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

· Hazard pictograms GHS07

· Signal word Warning

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• *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.

# **16 Other information**

The information contained herein is based on our present knowledge and is believed to be correct at the date issued. The information is subject to change without notice. However, all information, statements, recommendations or suggestions shall not constitute any guarantee, representation or warranty, expressed or implied.

Final determination whether the product is fit and suitable for a particular purpose and the user's method of use or application is the sole responsibility of the user.

· Department issuing SDS: Scientific department

· Contact: Tel.: +49 (0)4721-719-0

· Date of preparation / last revision: 10/21/2019 / 7

· 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) 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Org. Perox. B: Organic peroxides - Type B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 \* \* Data compared to the previous version altered.

Printing date 10/21/2019

Reviewed on 10/21/2019

# **1 Identification**

- · Product identifier
- Trade name: Ufi Gel hard C adhesive
- · Application of the substance / the mixture Adhesive
- 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



Flam. Liq. 2 H225 Highly flammable liquid and vapor.



Eye Irrit. 2AH319Causes serious eye irritation.Skin Sens. 1H317May cause an allergic skin reaction.STOT SE 3H336May cause drowsiness or dizziness.

#### · Label elements

· Hazard pictograms GHS02, GHS07

- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapor. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness.

• Precautionary statements

Keep away from open flames. - No smoking. Avoid breathing vapours.

Wear protective gloves / eye protection.

- Wear protective clothing.
- Do not get in mas on sk

Do not get in eyes, on skin, or on clothing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

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
- · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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Trade name: Ufi Gel hard C adhesive

· **vPvB:** Not applicable.

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# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
67-64-1	acetone	50-100%
	Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	
868-77-9	2-hydroxyethyl methacrylate	2.5-5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	

# 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: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 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 Wear protective clothing.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

- · 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.

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Trade name: Ufi Gel hard C adhesive

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· Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

· Conditions for safe storage, including any incompatibilities

· 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.

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

8 Exposure controls/personal protection

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

· Control parameters

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

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

#### 67-64-1 acetone (50-100%)

PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm

- REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm
- TLV Short-term value: 1187 mg/m<sup>3</sup>, 500 ppm Long-term value: 594 mg/m<sup>3</sup>, 250 ppm BEI

#### · Ingredients with biological limit values:

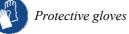
67-64-1 acetone (50-100%)

BEI 50 mg/L Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

• 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.
- Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- Protection of hands:



· 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

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9 Physical and chemical p	roperties
• Information on basic physica • General Information	l and chemical properties
· Appearance:	
Form:	Fluid
Color:	Colorless
· Odor:	Characteristic
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/Melting rang Boiling point/Boiling range</li> </ul>	
· Flash point:	-19 °C (-2 °F)
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Density at 20 °C (68 °F):	0.8 g/cm <sup>3</sup> (6.676 lbs/gal)
· 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.
- · 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:
- 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: Irritant to skin and mucous membranes.
- 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

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Trade name: Ufi Gel hard C adhesive

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- · 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:
- 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.

· Uncleaned packagings:

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

UN-Number		
DOT, ADR, IMDG, IATA	UN1090	
UN proper shipping name		
DOT	Acetone mixture	
ADR	1090 Acetone mixture	
IMDG, IATA	ACETONE mixture	
Transport hazard class(es)		
DOT		
<b>^</b>		
Class	3 Flammable liquids	

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	(Cont	d. of page
Label	3	
ADR, IMDG, IATA		
<b>e</b>		
Class	3 Flammable liquids	
Label	3	
Packing group		
DOT, ADR, IMDG, IATA	II	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Danger code (Kemler):	33	
EMS Number:	F- $E$ , $S$ - $D$	
Stowage Category	E	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	UN 1090 ACETONE MIXTURE, 3, II	

# **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.

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

None of the ingredients are listed

#### GHS label elements

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

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US

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Reviewed on 10/21/2019

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Hazard pictograms GHS02, GHS07	
Signal word Danger	
Hazard statements	
Highly flammable liquid and vapor.	
Causes serious eye irritation.	
May cause an allergic skin reaction.	
May cause drowsiness or dizziness.	
Precautionary statements	
Keep away from open flames No smoking.	
Avoid breathing vapours.	
Wear protective gloves / eye protection.	
Wear protective clothing.	
Do not get in eyes, on skin, or on clothing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if p	resent and easy to do.
Continue rinsing.	·
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Call a POISON CENTER/doctor if you feel unwell.	
If skin irritation or rash occurs: Get medical advice/attention.	
<i>If eye irritation persists: Get medical advice/attention.</i>	
In case of fire: Use for extinction: CO2, powder or water spray.	
IF ON SKIN: Wash with plenty of water.	
Dispose of contents/container in accordance with local/regional/national/international	regulations.

#### **16 Other information**

The information contained herein is based on our present knowledge and is believed to be correct at the date issued. The information is subject to change without notice. However, all information, statements, recommendations or suggestions shall not constitute any guarantee, representation or warranty, expressed or implied.

Final determination whether the product is fit and suitable for a particular purpose and the user's method of use or application is the sole responsibility of the user.

- · Department issuing SDS: Scientific department
- · Contact: Tel.: +49 (0)4721-719-0
- · Date of preparation / last revision: 10/21/2019 / 13
- 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids - Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 • \* Data compared to the previous version altered.