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## **1** Identification

· Product identifier

- Trade name: V-Print model 2.0
- Application of the substance / the mixture Light-curing resin for the generative production of dental models
- 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

· Classification of the substance or mixture

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



Skin Sens. 1 H317 May cause an allergic skin reaction.

• Additional information:

This document has been prepared in accordance with the U.S. OSHA Hazard Com-munication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

· Label elements

## · Hazard pictograms



· Hazard statements May cause an allergic skin reaction. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 compo	onents:	
CAS: 72869-86-4	Urethanedimethacrylate	50-100%
	� Skin Sens. 1B, H317	
CAS: 868-77-9	2-hydroxyethyl methacrylate	5-10%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
	. (Con	ntd. on page 2)

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(Contd. of page 1) CAS: 109-16-0 Triethylene glycol dimethacrylate *≤*2.5% 🐠 Skin Sens. 1, H317

## 4 First-aid measures

- · Description of first aid measures
- 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. 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 Treat symptomatically.

## **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 Ensure adequate ventilation

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).
- 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.
- Protective Action Criteria for Chemicals

CAS: 72869-86-4	Urethanedimethacrylate	120 mg/m
CAS: 868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m <sup>3</sup>
CAS: 109-16-0	Triethylene glycol dimethacrylate	33 mg/m <sup>3</sup>
• PAC-2:		
CAS: 72869-86-4	Urethanedimethacrylate	1,300 mg/m
CAS: 868-77-9	2-hydroxyethyl methacrylate	21 mg/m <sup>3</sup>
CAS: 109-16-0	Triethylene glycol dimethacrylate	360 mg/m <sup>3</sup>
• PAC-3:		
CAS: 72869-86-4	Urethanedimethacrylate	7,900 mg/m
CAS: 868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m
CAS: 109-16-0	Triethylene glycol dimethacrylate	2,100 mg/m

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## 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- No special precautions are necessary if used correctly.

For dental use only.

Observe the instructions for use.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: See storage instructions on package
- · 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.

#### · 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:



Protective gloves

· Material of gloves

Butyl rubber, BR

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

• Information on basic physical and • General Information	chemical properties	
Appearance:		
Form:	Fluid	
Color:	Beige	
Odor:	Ester-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
		(Contd. on page

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		(Contd. of page 3
Boiling point/Boiling range:	Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Decomposition temperature:	Not determined.	
·Auto igniting:	Product is not selfigniting.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Density:	Not determined.	
· 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/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
• Other information	No further relevant information available.	

## **10 Stability and reactivity**

• Reactivity No hazardous reaction when handled and stored according to provisions.

· 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:

CAS: 41637-38-1 BIS-EMA

Oral LD50 >2,000 mg/kg (rat)

• 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 (International Agency for Research on Cancer)

None of the ingredients is listed

·NTP (National Toxicology Program)

None of the ingredients is listed.

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<sup>•</sup> Primary irritant effect:

<sup>•</sup> on the skin: Irritant to skin and mucous membranes.

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### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12** Ecological information

• Toxicity The product is not ecotoxic.

- · 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:

Do not allow product to reach ground water, water course or sewage system. Disposal must be made according to official regulations

· 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:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	: <b>II of</b> Not applicable.	
· UN ''Model Regulation'':	Void	

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	and environmental regulations/legislation specific for the substance or mixture evant information available.
Sara	
Section 355 (	extremely hazardous substances):
None of the in	gredients are listed.
Section 313 (S	Specific toxic chemical listings):
None of the in	gredients are listed.
TSCA (Toxic	Substances Control Act):
	substances contained in this material are not listed on the TSCA Inventory.
Contact VOC	O for more information.
Hazardous Ai	r Pollutants
None of the in	gredients is listed.
Proposition 6	5
Chemicals kn	own to cause cancer:
None of the in	gredients are listed.
Chemicals kn	own to cause reproductive toxicity for females:
None of the in	gredients are listed
Chemicals kn	own to cause reproductive toxicity for males:
None of the in	gredients are listed
Chemicals kn	own to cause developmental toxicity:
None of the in	gredients are listed
Cancerogenit	y categories
EPA (Enviror	nmental Protection Agency)
None of the in	gredients are listed
TLV (Thresh	old Limit Value)
Contact VOC	O for more information.
NIOSH-Ca (I	National Institute for Occupational Safety and Health)

# **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 07/13/2022 / -

• Abbreviations and acronyms:

Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3