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**SECTION 1:** Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

• Trade name: <u>Löffelmaterial UV</u>

- · Article number: 540 0011 0, 540 0016 6
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
- No further relevant information available.
- Application of the substance / the mixture:

• *Application of the substance / the mixture: Tray material UV is suitable for the production of individual trays, functional trays and base plates to set up teeth on.* 

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: bredent GmbH & Co.KG Weißenhorner Straße 2 89250 Senden Tel: +49 (0) 7309/872-0 Fax: +49 (0) 7309/872-24

- *Further information obtainable from: R & D e-mail: R.D@bredent.com*
- 1.4 Emergency telephone number: (001) 352 323 3500

## **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Remark

The device is a medical device pursuant to Council Directive 93/42/EEC of 14 June 1993 concerning medical devices. No safety data sheet is required for the device, so no claim is made to full compliance with the relevant statutory requirements.

Classification according to Regulation (EC) No 1272/2008



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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

Medical products and medical devices within the meaning of Directives 90/385/EEC and 93/42/EEC used in an invasive manner or in direct contact with the body as well as medical products and medical devices falling under Directive 98/79/EC are fully exempt from the provisions of the CLP Regulation and therefore do not need to be classified, packaged or labelled.

*The product is classified and labelled according to the CLP regulation.* 

- Hazard pictograms GHS07
- · Signal word Warning

#### • Hazard-determining components of labelling:

7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

#### · Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

- · Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- *P273 Avoid release to the environment.*
- *P280 Wear protective gloves.*

*P333+P313 If skin irritation or rash occurs: Get medical advice/attention.* 

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- P321 Specific treatment (see on this label).
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

#### **SECTION 3: Composition/information on ingredients**

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of acrylate resins, inorganic fillers, initiators and colorants.

· Dangerous compone		
	Aliphatic urethane dimethacrylate	10-25%
	Aquatic Chronic 2, H411 Skin Sens. 1, H317	
	Silicone und Siloxane, dimethyl-,Reaktionsprodukte mit Siliciumdioxid	2.5-10%
CAS: 42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	<i>≤l%</i>
EINECS: 256-032-2	<ul> <li>Aquatic Chronic 2, H411</li> <li>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335</li> </ul>	
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone	<i>≤l%</i>
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302	
Additional informati	on: For the wording of the listed hazard phrases refer to section 16.	

### **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

### **SECTION 6:** Accidental release measures

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

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

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6.3 Methods and material for containment and cleaning up: Clean the affected area carefully; suitable cleaners are: Organic solvent
6.4 Reference to other sections No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# SECTION 7: Handling and storage

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.

- · 7.2 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: None.
- · 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.

• Ingredients 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 valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.5 \text{ mm}$ 

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 penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

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• *Eye protection:* Not required.

# **SECTION 9: Physical and chemical properties**

• 9.1 Information on basic physical and c	hemical properties
General Information	
· Appearance:	
Form:	Highly viscous
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: Undetermined.
Flash point:	>150 °C
Flammability (solid, gas):	Not determined.
Ignition temperature:	>400 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Solids content:	80 %
9.2 Other information	No further relevant information available.

#### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

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

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

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- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

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

· LD/LC50 values relevant for classification:

7473-98-5 2-hydroxy-2-methylpropiophenone

Oral LD50 1,694 mg/kg (rat)

- Primary irritant effect:
- *Skin corrosion/irritation* Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (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.

Harmful to aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods
- · Recommendation

Not cured product must not be disposed off together with household waste and must not reach the sewage system.

Smaller quantities of cured material may be disposed off together with household waste.

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· Uncleaned packaging:

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

14.1 UN-Number ADR, ADN, IMDG, IATA	Void	
	v olu	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR, IMDG, IATA	Void	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	
UN "Model Regulation":	Void	

#### **SECTION 15: Regulatory information**

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

· Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms GHS07
- · Signal word Warning
- · Hazard-determining components of labelling:

7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

- · Hazard statements
- H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

- · Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- *P280 Wear protective gloves.*

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- P321 Specific treatment (see on this label).
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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	mation is based on our present knowledge. However, this shall not constitute a guarantee for roduct features and shall not establish a legally valid contractual relationship.
Relevant	
H302 Hai	mful if swallowed.
H315 Cai	ises skin irritation.
H317 Ma	y cause an allergic skin reaction.
H319 Cai	ises serious eye irritation.
	y cause respiratory irritation.
	y toxic to aquatic life.
	y toxic to aquatic life with long lasting effects.
	ic to aquatic life with long lasting effects.
11411 101	ie io aqualle life with long lasting effects.
Departme	ent issuing SDS: R & D
Contact:	R & D
	tions and acronyms:
	nent international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerni
	ul Transport of Dangerous Goods by Rail)
	national Civil Aviation Organisation
	rd relatif au transport international des marchandises dangereuses par route (European Agreement Concerni Il Carriage of Dangerous Goods by Road)
	rnational Maritime Code for Dangerous Goods
	national Air Transport Association
	lly Harmonised System of Classification and Labelling of Chemicals
	uropean Inventory of Existing Commercial Chemical Substances
	ropean List of Notified Chemical Substances
	ical Abstracts Service (division of the American Chemical Society)
	al concentration, 50 percent al dose, 50 percent
	tent, Bioaccumulative and Toxic
	Persistent and very Bioaccumulative
	t: Acute toxicity – Category 4
	Skin corrosion/irritation – Category 2
	Serious eye damage/eye irritation – Category 2
	: Skin sensitisation – Category I
	Specific target organ toxicity (single exposure) – Category 3 to 1. Harandou to the gaugite aminometate gaugite barande Category 1
	te 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 conic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
	onic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 onic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
quante em	onic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3