Printing date 09.03.2022

Version number 3

Revision: 09.03.2022

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

· 1.1 Product identifier

· Trade name: Qu-resin dentin, Qu-resin rosa

- · Article number: 540 011 65, 540 011 66, 540 012 66
- 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: Repair resin.

· 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



H360 May damage fertility or the unborn child.



Repr. 1B

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, GHS08

• Signal word Danger

· 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 Ethyl 4-dimethylaminobenzoate

dibenzoyl peroxide

Hazard statements
 H317 May cause an allergic skin reaction.
 H360 May damage fertility or the unborn child.
 H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

GB



Printing date 09.03.2022

Version number 3

Revision: 09.03.2022

(Contd. of page 1)

Trade name: Qu-resin dentin, Qu-resin rosa

· Precaut	ionary statements
P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P	313 IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P362+P	364 Take off contaminated clothing and wash it before reuse.
· Addition	nal information:
Restricte	ed to professional users.
· 2.3 Othe	er hazards
· Results	of PBT and vPvB assessment
DPT. M	annlighta

• *PBT:* Not applicable. • *vPvB:* Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Paste of dimethacrylates, inorganic fillers, catalysts, stabilizers and pigments.

· Dangerous components: Void

• Additional information: 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: If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water.
- · 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 Wear protective clothing.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.

(Contd. on page 3)



Printing date 09.03.2022

Version number 3

Revision: 09.03.2022

Trade name: Qu-resin dentin, Qu-resin rosa

(Contd. of page 2)

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Keep away from heat and direct sunlight.
- 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: Store only in the original receptacle.
- · 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:

84-61-7 dicyclohexyl phthalate (≤1%)

WEL (Great Britain) Long-term value: 5 mg/m³

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- Do not eat, drink, smoke or sniff while working.

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:

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). The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• *Eye protection: Goggles recommended during refilling*

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- · Appearance:
- Form:
- Colour: Odour:

Pasty Whitish Weak, characteristic



GB



Printing date 09.03.2022

Version number 3

Revision: 09.03.2022

Trade name: Qu-resin dentin, Qu-resin rosa

		(Contd. of page
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	e: Undetermined.	
· Flash point:	101 °C	
· Flammability (solid, gas):	Not applicable.	
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 determined.	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapour density	Not determined.	
• Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Solids content:	0.0 %	
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
- Exothermic polymerisation.

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Reacts with amines.
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- Reacts with reducing agents.
- Reacts with oxidising agents.
- Reacts with peroxides and other radical forming substances.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
- The following may be given off during a fire:
- Danger of forming toxic pyrolysis products.
- Carbon monoxide and carbon dioxide
- Poisonous gases/vapours

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(Contd. on page 5)

Printing date 09.03.2022

Version number 3

Revision: 09.03.2022

Trade name: Qu-resin dentin, Qu-resin rosa

(Contd. of page 4)

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · 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
- May damage fertility or the unborn child.
- 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.
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · 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.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• *Recommendation:* Non contaminated packagings may be treated like household garbage.

14.1 UN-Number		
ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
ADR, ADN, IMDG, IATA	Void	



Printing date 09.03.2022

Version number 3

Revision: 09.03.2022

Trade name: Qu-resin dentin, Qu-resin rosa

		(Contd. of page 5	
· 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 Annex II of			
Marpol and the IBC Code	Not applicable.		
· UN "Model Regulation":	Void		

SECTION 15: Regulatory information

 \cdot 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, GHS08

· Signal word Danger

· 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 Ethyl 4-dimethylaminobenzoate

dibenzoyl peroxide

• Hazard statements

H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P201 Obtain special instructions before use.

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- *P280 Wear protective gloves/protective clothing/eye protection/face protection.*
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 SDS: R & D

- · Contact: R & D
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 7)



Printing date 09.03.2022

Version number 3

Revision: 09.03.2022

Trade name: Qu-resin dentin, Qu-resin rosa

	(Contd. of page 6)
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
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	
Skin Sens. 1: Skin sensitisation – Category 1	
Repr. 1B: Reproductive toxicity – Category 1B	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
• * Data compared to the previous version altered.	
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