

Safety data sheet according to 1907/2006/EC, Article 31

Version number 8 (replaces version 7)

Revision date: 10.02.2023

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

· 1.1 Product identifier

[·] Trade name: CLEARFIL NEW BOND ; CATALYST

- · Article number: 022-C
- Registration number Not applicable

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 Dental bonding material

· 1.3 Details of the supplier of the safety data sheet

Supplier : Kuraray Europe GmbH Philipp-Reis-Str. 4, 65795 Hattersheim am Main Germany Phone: +49 (0)69 305 35 835 E-mail: dental.eu@kuraray.com
Further information obtainable from: Supplier
1.4 Emergency telephone number: (UK) 0 800 680 0425 (GB) +44 20 35147487

- (AU)+61 2 80363166
- * 3E Company
- * Kuraray Access Code:334674

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

· Additional information :

Medical devices as defined in Regulation (EU) 2017/745 and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (GB CLP/ GHS) usually if they are in the finished state and intended for the final user.

· 2.2 Label elements

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

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

Hazard pictograms



· Signal word Warning

· Hazard-determining components of labelling:

2-hydroxyethyl methacrylate

benzoyl peroxide

· Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

· Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.

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P280	Wear protective gloves / eye protection / face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· 2.3 Other hazar	ds

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

 Dangerous 	components:
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Dungerous components.			
			20-40%
E	EINECS: 216-367-7	🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
			20-40%
E	EINECS: 212-782-2	🐼 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
-		benzoyl peroxide	<3%
E	EINECS: 202-327-6	♦ Self-react. B, H241; Org. Perox. B, H241; ♦ Eye Irrit. 2, H319; Skin Sens. 1, H317	

• Other ingredients:

Hydrophobic aliphatic dimethacrylate

10-Methacryloyloxydecyl dihydrogen phosphate

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · 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:
- Do not induce vomiting; call for medical help immediately.
- If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- \cdot 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.



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(Contd. of page 2) • 5.2 Special hazards arising from the substance or mixture No further relevant information available. • 5.3 Advice for firefighters

• Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures See Section 8.
- \cdot 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). Ensure adequate ventilation.
- · 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· 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 in a refrigerator (2-8°C).

• **Information about storage in one common storage facility:** Store away from oxidising agents.

- Store away from reducing agents.
- · Further information about storage conditions:
- Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- [•] 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
- Appropriate engineering controls No further data; see item 7.
- · 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.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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Hand protection



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

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/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

·9.1 Information on basic physical and chemical properties		
· General Information		
· Physical state	Liquid	
· Colour:	Transparent	
· Odour:	Odourless	
• Melting point/freezing point:	-12 °C (2-hidroxyethyl methacrylate)	
Boiling point or initial boiling point and boiling		
range	205 °C (2-hydroxyethyl methacrylate)	
· Flammability	Not determined.	
• Lower and upper explosion limit		
· Lower:	Not determined	
· Upper:	Not determined	
· Flash point:	97 °C (2-hydroxyethyl methacrylate)	
· Auto-ignition temperature:	Not determined	
· Decomposition temperature:	Not determined.	
·рН	Not determined	
· Viscosity:	Not determined	
· Kinematic viscosity	Not applicable.	
· Solubility		
· water:	Not miscible or difficult to mix.	
· Partition coefficient n-octanol/water (log value)	tition coefficient n-octanol/water (log value) Not determined	
· Vapour pressure:	Not determined	
· Density and/or relative density		
· Density:	1.1 g/cm^{3}	
· Relative density	Not determined.	
Relative vapour density	Not determined	
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9.2 Other information		
Appearance:		
Form:	Liquid	
Important information on protection of heal		
environment, and on safety.		
Explosive properties:	Product does not present an explosion hazard.	
Change in condition		
Softening point/range		
Oxidising properties	Not determined.	
Evaporation rate	Not determined.	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamma	able	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

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.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

 \cdot 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values relevant for classification:

868-77-9	2-hydroxyethyl methacrylate

Oral LD50 4680 mg/kg (guinea pig)

3275 mg/kg (mouse)

5050 mg/kg (rat)

94-36-0 benzoyl peroxide

Oral LD50 5700 mg/kg (mouse)

7710 mg/kg (rat)

LD50 250 mg/kg (mouse - intraperitoneal)

· Skin corrosion/irritation

Causes skin irritation.

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• Serious eye damage/irritation

- Causes serious eye irritation.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.

· 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.
- · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · 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.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

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

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	Void	
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· 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 Maritime transport in bulk accordin instruments	g to IMO Not applicable.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • Directive 94/33/EC: Care should be taken when people under 18 handle this product.

• Directive 94/85/EEC: No further relevant information available.

· Chemical safety assessment

· Named dangerous substances - ANNEX I None of the ingredient is listed.

· Regulation (EU) No 649/2012

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 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.

· Relevant phrases

- H241 Heating may cause a fire or explosion.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

• Abbreviations and acronyms:

- ELINCS: European List of Notified Chemical Substances
- Self-react. B: Self-reactive substances and mixtures Type B
- Org. Perox. B: Organic peroxides Type B
- Skin Irrit. 2: Skin corrosion/irritation Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation Category 1
- * * Data compared to the previous version altered.