

Printing date 03/11/2015

Reviewed on 04/01/2015

1 Identification

· Product identifier

- · Trade name: <u>CLEARFIL LINER BOND 2V</u>; BOND B
- · Article number: CA061-BB
- \cdot Application of the substance / the mixture Dental bonding material
- · Details of the supplier of the safety data sheet
- · Manufacturer:
- Kuraray Noritake Dental Inc. 1621 Sakazu, Kurashiki, Okayama 710-0801, Japan • **Contact information:** Kuraray America, Inc. 33 Maiden Lane, 6th Floor, New York,
- NY 10038 U.S.A. Tel: 800-879-1676 Fax: 888-700-5200 Website: www.kuraraydental.com

2 Composition/information on ingredients

\cdot Chemical characterization: Mixtures

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

· Dangerous components:

Dangerous components.	
	25-50%
Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
	25-50%
Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
94-36-0 benzoyl peroxide	≦ 2.5%
🔗 🚸 Org. Perox. B, H241; 🚸 Eye Irrit. 2, H319; Skin Sens. 1, H317	
· Other ingredients:	

Hydrophobic aliphatic methacrylate Colloidal silica

3 Hazard(s) identification

\cdot Classification of the substance or mixture



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

· Label elements

- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS07
- · Signal word Warning

· Hazard-determining components of labeling:

2-hydroxyethyl methacrylate benzoyl peroxide

· Hazard statements

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

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	cause an allergic skin reaction.
	ary statements
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P305+P351	+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Hazard des	scription:
· WHMIS-sy	
	c material causing other toxic effects
(\mathbf{I})	
· Classificati · NFPA rati	ion system: ngs (scale 0 - 4)
	Health = 1 Fire = 1 Reactivity = 0
· HMIS-rati	ngs (scale 0 - 4)
HEALTH FIRE REACTIVITY	 Health = 1 Fire = 1 Reactivity = 0
4 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; immediately call for medical help.
- If symptoms persist consult doctor.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

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KUCACA Material Safety Data Sheet selon ISO/DIS 11014 selon ISO/DIS 11014

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• 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.

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

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a refrigerator (2-8 °C).
- · 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.

Protect from heat and direct sunlight.

· 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.

· 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.
- · 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.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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

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.

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· 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 protection:



Tightly sealed goggles

General Information		
Appearance: Form:	Timeld	
1 01 110	Liquid	
Color:	Transparent	
Odor:	Odorless	
pH-value:	Not applicable	
Change in condition		
Melting point/Melting range:	-12 °C (2-hydroxyethyl methacrylate)	
Boiling point/Boiling range:	205 °C (2-hydroxyethyl methacrylate)	
Flash point:	97 °C (2-hydroxyethyl methacrylate)	
Ignition temperature:	Not applicable	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not applicable	
Upper:	Not applicable	
Vapor pressure:	Not applicable	
Density:	1.1 g/cm ³	
Vapour density	Not applicable	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wat	er): Not applicable	
Other information	No further relevant information available.	

10 Stability and reactivity

 \cdot Thermal decomposition / conditions to be avoided:

- No decomposition if used and stored according to specifications.
- Incompatible materials: No further relevant information available.
- \cdot Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

· Acute toxicity:

 \cdot LD/LC50 values that are relevant for classification:

868-77-9 2-hydroxyethyl methacrylate

Oral LD50 4680 mg/kg (guinea pig)

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		3275 mg/kg (mouse)	
		5050 mg/kg (rat)	
94-30	6-0 ben	zoyl peroxide	
Oral	LD50	5700 mg/kg (mouse)	
		7710 mg/kg (rat)	
	LD50	250 mg/kg (mouse - intraperitoneal)	
· Prim	ary irr	itant effect:	
The prepa Irrita	product trations nt	toxicological information: shows the following dangers according to internally approved calculation methods for : ic categories	
	0	rnational Agency for Research on Cancer)	
94-36	5-0 ber	nzoyl peroxide	3
· NTP	(Natio	nal Toxicology Program)	
None	e of the	ingredients is listed.	
· OSH	A-Ca (Occupational Safety & Health Administration)	
None	e of the	ingredients is listed.	

12 Ecological information

· Persistence and degradability No further relevant information available.

- · Bioaccumulative potential No further relevant information available.
- \cdot 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.

13 Disposal considerations

\cdot Waste treatment methods

 \cdot Recommendation:

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

- · Uncleaned packagings:
- \cdot **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number
· DOT, TDG, ADN, IMDG, IATA Void
· UN proper shipping name
· DOT, TDG, ADN, IMDG, IATA Void

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· Transport hazard class(es)		
· DOT, TDG, ADN, IMDG, IATA		
· Class	Void	
 Packing group DOT, TDG, IMDG, IATA 	Void	
· Environmental hazards:		
· Marine pollutant:	No	
\cdot 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":	-	

15 Regulatory information

a

· Sara	
· Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
· Section 313 (Specific toxic chemical listings):	
94-36-0 benzoyl peroxide	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value established by ACGIH)	
94-36-0 benzoyl peroxide	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· Canadian substance listings:	
· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
· Canadian Ingredient Disclosure list (limit 1%)	
868-77-9 2-hydroxyethyl methacrylate	
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94-36-0 benzoyl peroxide

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.

\cdot Version: 2

· 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:

Org. Perox. B: Organic Peroxides, Type B Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, Hazard Category 1