

Printing date 10/10/2024 Version 5 Reviewed on 10/10/2024

1 Identification

· Product identifier

· Trade name: CLEARFIL LINER BOND 2V; BOND B

· Article number: CA061-BB

· Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· Application of the substance / the mixture Dental materials

· Details of the supplier of the safety data sheet

·Supplier

Kuraray America, Inc.

32 Old Slip, 7th Floor, New York,

NY 10005 U.S.A. Tel: 800-879-1676

Website: www.kuraraydental.com

· Further information obtainable from: Supplier

· Emergency telephone number:

CHEMTREC; day and night, within USA and Canada

1-800-424-9300 CCN706984 or +1 703-527-3887 (collect calls accepted)

2 Hazard identification

· Classification of the substance or mixture

Skin Irritation - Category 2 H315 Causes skin irritation.

Eye Irritation - Category 2A H319 Causes serious eye irritation.

Skin Sensitizer - Category 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.

H317 May cause an allergic skin reaction.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 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.

(Contd. on page 2)



Printing date 10/10/2024 Version 5 Reviewed on 10/10/2024

Trade name: CLEARFIL LINER BOND 2V; BOND B

Contd. of page 1

P501

Dispose of contents/container in accordance with local/regional/national/international

regulations.

3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:				
868-77-9	2-hydroxyethyl methacrylate	20 - 40% *		
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317			
94-36-0	benzoyl peroxide	< 3%		
	Organic Peroxides – Type B, H241; UEye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317			

^{*} Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · 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: If symptoms persist consult 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 No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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 See Section 8.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways.

Vacuum or sweep material and place in a disposal container. Provide ventilation.

Use appropriate Personal Protective Equipment (PPE).

(Contd. on page 3)



Printing date 10/10/2024 Version 5 Reviewed on 10/10/2024

Trade name: CLEARFIL LINER BOND 2V; BOND B

(Contd. of page 2)

· 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.

Avoid contact with skin and eyes, Do not swallow. Avoid generating dust. Do not breathe dust/fume/gas/mist/vapors/spray.

- · 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: 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.

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/ Personal protection

- · 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
- · Additional information about design of technical systems: No further data; see section 7.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

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: Suitable respiratory protective device recommended.
- · 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.

(Contd. on page 4)



Printing date 10/10/2024 Version 5 Reviewed on 10/10/2024

Trade name: CLEARFIL LINER BOND 2V; BOND B

(Contd. of page 3)

· 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

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

Physical state
Color:
Odor:
Odorless
Melting point/Melting range:
Not determined.

· Boiling point/Boiling range: 213 °C (868-77-9 2-hydroxyethyl methacrylate)

· Flammability: Not determined.

· Explosion limits:

· Lower: Not determined. · Upper: Not determined.

• Flash point: 106 °C (868-77-9 2-hydroxyethyl methacrylate) • Auto ignition temperature: 375 °C (868-77-9 2-hydroxyethyl methacrylate)

Decomposition temperature: Not applicable.pH-value: Not determined.

· Viscosity:

Kinematic viscosity Dynamic: Not determined. Not determined.

Solubility in / Miscibility with

• Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not applicable.

· **Vapor pressure at 68 °C:** 1.3 hPa (868-77-9 2-hydroxyethyl methacrylate)

Density at 20 °C:
 Relative vapor density
 Particle characteristics
 1.1 g/cm³
 Not determined.
 Not applicable.

· Other information

· Important information on protection of health and

environment, and on safety.

• **Danger of explosion:** Product does not present an explosion hazard.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- · Chemical stability No hazardous reaction when handled and stored according to provisions.
- · 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: Carbon monoxide and carbon dioxide

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Printing date 10/10/2024 Version 5 Reviewed on 10/10/2024

Trade name: CLEARFIL LINER BOND 2V; BOND B

(Contd. of page 4)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:							
868-77-	868-77-9 2-hydroxyethyl methacrylate						
Oral	LD50	4,680 mg/kg (guinea pig)					
		3,275 mg/kg (mouse)					
		5,050 mg/kg (rat)					
Dermal	LD50	5,000 mg/kg (rabbit)					
94-36-0 benzoyl peroxide							
Oral	LD50	5,700 mg/kg (mouse)					
		7,710 mg/kg (rat)					
	LD50	250 mg/kg (mouse - intraperitoneal)					

on the skin:

Causes skin irritation.

· on the eye:

Causes serious eye irritation.

· Sensitization:

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.
- · Specific target organ toxicity single exposure

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

· Specific target organ toxicity - repeated exposure

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

- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Subacute to chronic toxicity:
- · 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.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

(Contd. on page 6)



Printing date 10/10/2024 Version 5 Reviewed on 10/10/2024

Trade name: CLEARFIL LINER BOND 2V; BOND B

(Contd. of page 5)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Recommendation:

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

- · Uncleaned packagings:
- · Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

4 Transport information	
· UN-Number · DOT/TDG, ADR, IMDG, IATA	Void
· UN proper shipping name · DOT/TDG, ADR, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT/TDG, ADR, IMDG, IATA · Class	Void
· Packing group · DOT/TDG, 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	II of Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Canadian substance listings:

· Canadian Domestic Substances List (DSL)				
868-77-9 2-hydroxyethyl methacrylate				
94-36-0 benzoyl peroxide				
· Canadian Non-Domestic Substances List (NDSL)				
None of the ingredients is 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				
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.

(Contd. on page 7)



Printing date 10/10/2024 Version 5 Reviewed on 10/10/2024

Trade name: CLEARFIL LINER BOND 2V; BOND B

(Contd. of page 6)

· 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:

DOT: US Department of Transportation ELINCS: European List of Notified Chemical Substances

* * Data compared to the previous version altered.