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1 Identification

· Product identifier

- · Trade name: <u>CLEARFIL LINER BOND 2V</u>; PRIMER A
- Article number: CA061-PA
- \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

· Chemical characterization: Mixtures

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

· Dangerous components:

868-77-9 2-hydroxyethyl methacrylate
Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317

10-25%

 Other ingredients: 10-Methacryloyloxydecyl dihydrogen phosphate Hydrophilic aliphatic dimethacrylate dl-Camphorquinone Water Accelerators Dyes

3 Hazard(s) identification

 \cdot Classification of the substance or mixture

GHS07

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
- · Hazard statements
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.

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Material Safety Data Sheet selon ISO/DIS 11014

Reviewed on 04/01/2015

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	ry 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 desc	6
· WHMIS-syr	
	material causing other toxic effects
 Classificatio NFPA rating 	n system: gs (scale 0 - 4)
	Health = 1 Fire = 1 Reactivity = 0
· HMIS-ratin	gs (scale 0 - 4)
HEALTH FIRE REACTIVITY	
4 First-aid r	neasures

· 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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- Environmental precautions: Dilute with plenty of water.
- 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).

Material Safety Data Sheet

selon ISO/DIS 11014

- 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

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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 protection:



Tightly sealed goggles

General Information		
Appearance:		
Form:	Liquid	
Color:	Orange	
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:	Partly miscible.	
Partition coefficient (n-octanol/wat		
Other information	No further relevant information available.	

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
 Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

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Toxicological information Acute toxicity: LD/LC50 values that are relevant for classification:			
	-9 2-hydroxyethyl methacrylate		
Oral I	D50 4680 mg/kg (guinea pig)		
	3275 mg/kg (mouse)		
	5050 mg/kg (rat)		
• Sensiti • Additi The property prepara Irritant • Carcir	ogenic categories		
· IARC	(International Agency for Research on Cancer)		
None of	of the ingredients is listed.		
	of the ingredients is listed. National Toxicology Program)		
· NTP (
• NTP (I None o	National Toxicology Program)		

12 Ecological information

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · 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
- · 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.
- \cdot Recommended cleansing agent: Water, if necessary with cleansing agents.

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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		(Contd. of page 5)
· Transport hazard class(es)		
• DOT, TDG, ADN, IMDG, IATA • Class	Void	
 Packing group DOT, TDG, IMDG, IATA 	Void	
 Environmental hazards: Marine pollutant: 	No	
· 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":	-	

15 Regulatory information

· Sara

· Sara	
· Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
\cdot 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)	
None of the ingredients is listed.	
\cdot 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.	
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· Canadian Ingredient Disclosure list (limit 1%)

868-77-9 2-hydroxyethyl methacrylate

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.

· Version: 2

- · Relevant phrases
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

· Abbreviations and acronyms:

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

CDN