

Printing date 08/20/2015 Reviewed on 08/20/2015

1 Identification

- · Product identifier
- · Trade name: CLEARFIL CERAMIC PRIMER PLUS
- · Article number: US215
- · Application of the substance / the mixture Adhesive, dental ceramic/ Adhesive, dental metal
- · 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
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:				
64-17-5 ethanol	>80%			
♠ Flam. Liq. 2, H225; ♦ Carc. 1A, H350				
2530-85-0 3-trimethoxysilylpropyl methacrylate	<5%			
♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; H227				

· Other ingredients: 10-Methacryloyloxydecyl dihydrogen phosphate

3 Hazard(s) identification

· Classification of the substance or mixture



Flam. Liq. 2 H225 Highly flammable liquid and vapor.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS02
- · Signal word Danger
- · Hazard statements

H225 Highly flammable liquid and vapor.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P280 Wear protective gloves / eye protection / face protection.

P240 Ground/bond container and receiving equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



1 Health = 1Fire = 3REACTIVITY 0 Reactivity = 0

4 First-aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eve contact: Rinse opened eye for several minutes under running water. Then 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

Wear protective equipment. Keep unprotected persons away.

· 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).

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.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a refrigerator (2-8 °C).

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· Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from reducing agents.

· 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:

64-17-5 ethanol

PEL	Long-term value: 1900 mg/m³, 1000 ppm
	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1880 mg/m³, 1000 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: 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

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

9 Physical and chemical properties

- · General Information
- · Appearance:

Form: Liquid
Color: Colorless
• Odor: Alcohol-like

· **pH-value:** Not applicable

 $\cdot \ Change \ in \ condition$

Melting point/Melting range: -114.5 °C (ethanol)

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Boiling point/Boiling range:	78 °C (ethanol)	
· Flash point:	13 °C (ethanol)	
· Ignition temperature:	425.0 °C (ethanol)	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· Explosion limits: Lower: Upper:	3.5 Vol % (ethanol) 15.0 Vol % (ethanol)	
· Vapor pressure:	59.0 hPa (20 °C, ethanol)	
· Density: · Vapour density	0.8 g/cm ³ 1.6 g/cm ³ (ethanol, air=1)	
· Solubility in / Miscibility with Water:	Partly miscible.	
· Partition coefficient (n-octanol/wate · Other information	r): -0.32 (ethanol) 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

11 Toxicological information

· Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:				
64-17-5 ethanol					
Oral	LD50	3450 mg/kg (mouse)			
		7060 mg/kg (rat)			
Inhalative	LC50/4 h	20000 mg/l (rat)			
	LD50	3600 mg/kg (rat - intraperioneal)			
2530-85-0 3-trimethoxysilylpropyl methacrylate					
Oral	LD50	22600 mg/kg (rat)			
Dermal	LD50	500 mg/kg (rabbit)			

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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· NTP (National Toxicology Program)

None of the ingredients is listed.

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

- · Waste treatment methods
- · Recommendation:

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

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

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	port in		

· UN-Number

• **DOT** UN1170 • **ADR, IMDG, IATA** 1170

· UN proper shipping name

· **DOT** Ethanol, mixture

· ADR
 · IMDG
 1170 Ethanol (Ethyl alcohol), mixture
 ETHANOL (ETHYL ALCOHOL), mixture

II

· IATA ETHANOL, mixture

- · Transport hazard class(es)
- \cdot DOT



· Class 3 Flammable liquids

· Label

· ADR, IMDG, IATA



· Class 3 Flammable liquids

· Label 3

· Packing group

· DOT, ADR, IMDG, IATA

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Environmental hazards:
Marine pollutant:
No
Special precautions for user
Danger code (Kemler):
F-E,S-D
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.
UN "Model Regulation":
UN1170, Ethanol (Ethyl alcohol), mixture, 3, II

15 Regulatory information

·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.

· 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)

64-17-5 ethanol

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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: 1

· Relevant phrases

H225 Highly flammable liquid and vapor.

H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H350 May cause cancer.

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· Abbreviations and acronyms:

Flam. Liq. 2: Flammable liquids, Hazard Category 2

: Flammable liquids, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Carc. 1A: Carcinogenicity, Hazard Category 1A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3