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1 Identification

- · Product identifier
- Trade name: CLEARFIL CERAMIC PRIMER
- · Article number: US117
- · 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
- · Manufacturer:

Kuraray Noritake Dental Inc.

1621 Sakazu, Kurashiki,

Okayama 710-0801,

Japan

Supplier

Kuraray America, Inc.

32 Old Slip, 7th Floor, New York,

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

Website: www.kuraraydental.com

· 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(s) identification

· Classification of the substance or mixture

Flammable Liquids 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.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.

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

- · Other hazards Avoid breathing sanding dust / swarf.
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

US



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3 Composition/information on ingredients

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

64-17-5 ethanol

Flammable Liquids 2, H225

> 80%

- Other ingredients:
- 3-Trimethoxysilylpropyl methacrylate
- 10-Methacryloyloxydecyl dihydrogen phosphate

4 First-aid measures

- · Description of first aid measures
- · General information:

Avoid contact with eyes.

Avoid contact with skin.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · 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.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

See Section 8.

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).

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).

· Reference to other sections

See Section 7 for information on safe handling.

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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.

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:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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 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.

- · Storage class: 3
- · 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:

64-17-5 ethanol

PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Long-term value: 1900 mg/m³, 1000 ppm Short-term value: 1000 ppm A3
	A3

- · 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: Wash hands before breaks and at the end of work.
- · Breathing equipment: Suitable respiratory protective device recommended.
- · 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.

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: Safety glasses

9 Physical and chemical properties

· Information on basic physical and chemical properties

· Physical state Liquid · Color: Colorless · Odor: Alcohol-like Not determined. · Odor threshold:

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

· Boiling point/Boiling range: 78 °C

· Flammability (solid, gaseous): Highly flammable.

· Explosion limits:

· Lower: 3.5 Vol % (ethanol) 15.0 Vol % (ethanol) · Upper: · Flash point: 13°C (ethanol) · Auto ignition temperature: 425.0 °C (ethanol) · Decomposition temperature: Not determined · pH-value: Not determined · Viscosity: Not determined

· Kinematic viscosity Not determined. · Dynamic: Not determined.

· Solubility in / Miscibility with

Partly miscible. · Water: · Partition coefficient (n-octanol/water): -0.32 (ethanol)

59.0 hPa (20°C, ethanol) · Vapor pressure: · Density: 0.8 g/cm³ (ethanol) Not determined · Relative density

1.6 g/cm³ (ethanol, air=1) · Relative vapor density

· Other information

· Important information on protection of health and

environment, and on safety.

Danger of explosion: Product is not explosive. However, formation of

explosive air/vapor mixtures are possible.

· Change in condition

· Evaporation rate Not determined

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · 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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11 Toxicological information

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

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: Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- · DOT, IMDG, IATA

UN1170

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(Contd. of page 5) · UN proper shipping name \cdot DOT Ethanol mixture · IMDG ETHANOL (ETHYL ALCOHOL) mixture \cdot IATA ETHANOL mixture · Transport hazard class(es) \cdot DOT · Class 3 Flammable liquids ·Label · IMDG, IATA · Class 3 Flammable liquids ·Label · Packing group · DOT, IMDG, IATA II · Environmental hazards: · Marine pollutant: No Warning: Flammable liquids · Special precautions for user · Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-D · Stowage Category Α · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: On passenger aircraft/rail: 5 L · Quantity limitations On cargo aircraft only: 60 L · IMDG · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · UN "Model Regulation": UN 1170 ETHANOL (ETHYL ALCOHOL) MIXTURE, 3,

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- Section 355 (extremely hazardous substances):

None of the ingredient is listed.

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· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· SARA 311/312: See Section 2 for the information on physical and health hazards.

· TSCA (Toxic Substances Control Act):

64-17-5	ethanol	ACTIVE
2530-85-0	3-trimethoxysilylpropyl methacrylate	ACTIVE

· Hazardous Air Pollutants

None of the ingredients is 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)

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.

· Relevant phrases

H225 Highly flammable liquid and vapor.

· NFPA ratings (scale 0 - 4)



Health = 0 Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 0 Health = 0
FIRE 3 Fire = 3

REACTIVITY 0 Reactivity = 0

· Abbreviations and acronyms:

DOT: US Department of Transportation

ELINCS: European List of Notified Chemical Substances

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

 $Flammable \ Liquids \ 2: \ F\bar{lammable} \ liquids - Category \ 2$

* Data compared to the previous version altered.