

Printing date 09/11/2024 Version 5 Reviewed on 09/11/2024

#### 1 Identification

· Product identifier

· Trade name: CLEARFIL DC CORE PLUS; A & B Paste

· Article number: US162

· 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

· 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

Sensitization - Skin 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:

Triethyleneglycol dimethacrylate

benzoyl peroxide

· Hazard statements

H317 May cause an allergic skin reaction.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.

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

regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB:

3896-11-5 2-(2'-Hydroxy-3'-t-butyl-5'-methylphenyl)-5-chlorobenzotriazole



Printing date 09/11/2024 Version 5 Reviewed on 09/11/2024

Trade name: CLEARFIL DC CORE PLUS; A & B Paste

(Contd. of page 1)

## 3 Composition/information on ingredients

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

· Dangerous components:				
109-16-0	Triethyleneglycol dimethacrylate	< 4%		
	🗘 Sensitization - Skin 1B, H317			
94-36-0	benzoyl peroxide	< 1%		
	Organic Peroxides - Type B, H241; Use Irritation 2A, H319; Sensitization - Skin 1, H317			

### 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.
- · 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.
- Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:

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.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

US



Printing date 09/11/2024 Version 5 Reviewed on 09/11/2024

Trade name: CLEARFIL DC CORE PLUS; A & B Paste

(Contd. of page 2)

### 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: 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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

1344-28-1 aluminium oxide			
PEL	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction		
REL	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.		
TLV	Long-term value: 1* mg/m³ as Al; *as respirable fraction, A4		
94-36	94-36-0 benzoyl peroxide		
PEL	Long-term value: 5 mg/m <sup>3</sup>		
REL	Long-term value: 5 mg/m³		
TLV	Long-term value: 5 mg/m³ A4		

- · 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:

Immediately remove all soiled and contaminated clothing.

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.

(Contd. on page 4)



Printing date 09/11/2024 Version 5 Reviewed on 09/11/2024

Trade name: CLEARFIL DC CORE PLUS; A & B Paste

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: Safety glasses

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state Solid Colored · Color: · Odor: Light

· Odor threshold: Not determined. · Melting point/Melting range: Not determined. · Boiling point/Boiling range: Not determined. · Flammability: Not determined.

· Explosion limits:

· Lower: Not applicable. · Upper: Not applicable. · Flash point: Not applicable · Auto ignition temperature: Not applicable. · Decomposition temperature: Not applicable. · pH-value: Not determined.

· Viscosity:

· Kinematic viscosity Not applicable. · Dynamic: Not applicable.

· Solubility in / Miscibility with

Insoluble. · Water: · Partition coefficient (n-octanol/water): Not applicable. · Vapor pressure: Not applicable. · Density at 20 °C: 2 g/cm<sup>3</sup> Not determined. · Relative density

Not applicable. · Relative vapor density

· Other information

· Important information on protection of health and environment, and on safety.

· Danger of explosion: Product does not present an explosion hazard.

· Evaporation rate Not applicable.

### 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.

(Contd. on page 5)



Printing date 09/11/2024 Version 5 Reviewed on 09/11/2024

Trade name: CLEARFIL DC CORE PLUS; A & B Paste

(Contd. of page 4)

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

## 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:

#### 109-16-0 Triethyleneglycol dimethacrylate

Oral LD50 2,000 mg/kg (mouse) 10,800 mg/kg (rat)

- 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:

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.
- · vPvR•

3896-11-5 2-(2'-Hydroxy-3'-t-butyl-5'-methylphenyl)-5-chlorobenzotriazole

- · Other adverse effects
- · Additional ecological information:
- · General notes: Not hazardous for water.

#### 13 Disposal considerations

· Recommendation:

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

(Contd. on page 6)



Printing date 09/11/2024 Version 5 Reviewed on 09/11/2024

Trade name: CLEARFIL DC CORE PLUS; A & B Paste

(Contd. of page 5)

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

4 Transport information				
· UN-Number · DOT, IMDG, IATA	Void			
UN proper shipping name DOT, IMDG, IATA	Void			
· Transport hazard class(es)				
· DOT, IMDG, IATA · Class	Void			
Packing group DOT, IMDG, IATA	Void			
· Environmental hazards:	Not applicable.			
· 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":	Void			

## 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.

· 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):			
109-16-0	Triethyleneglycol dimethacrylate	ACTIVE	
94-36-0	benzoyl peroxide	ACTIVE	
3896-11-5	2-(2'-Hydroxy-3'-t-butyl-5'-methylphenyl)-5-chlorobenzotriazole	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.

(Contd. on page 7)



Printing date 09/11/2024 Version 5 Reviewed on 09/11/2024

Trade name: CLEARFIL DC CORE PLUS; A & B Paste

(Contd. of page 6)

· 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

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

NFPA ratings (scale 0 - 4)



 $\begin{aligned} & \text{Health} = 0 \\ & \text{Fire} = 0 \\ & \text{Reactivity} = 0 \end{aligned}$ 

· HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 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

Organic Peroxides - Type B: Organic peroxides - Type B

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation - Category 1

Sensitization - Skin 1B: Skin sensitisation - Category 1B

\* Data compared to the previous version altered.

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