

Printing date 28.04.2023

Version number 4

Revision date: 28.04.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

• Trade name: PANAVIA V5 ; Paste

- · Article number: 214-P
- **Registration number** Not applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.

· Application of the substance / the mixture Resin-based dental adhesive cement

· 1.3 Details of the supplier of the safety data sheet

Supplier : Kuraray Europe GmbH Philipp-Reis-Str. 4, 65795 Hattersheim am Main Germany Phone: +49 (0)69 305 35 835 E-mail: dental.eu@kuraray.com
Further information obtainable from: Supplier
1.4 Emergency telephone number: (UK) 0 800 680 0425 (GB) +44 20 35147487

- (AU)+61 2 80363166
- * 3E Company
- * Kuraray Access Code:334674

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.

\cdot Additional information

Medical devices as defined in Regulation (EU) 2017/745 and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (GB CLP/ GHS) usually if they are in the finished state and intended for the final user.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



· Signal word Warning

· Hazard-determining components of labelling:

titanium dioxide

· Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer. Route of exposure: Inhalation.

· Precautionary statements

P264 Wash thoroughly after handling.

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P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
Labelling of pack	ages where the contents do not exceed 125 ml
Precautionary sta	tements
EUH212: Warning	! Hazardous respirable dust may be formed when used. Do not breathe dust.
2.3 Other hazard	

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

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
		5-15%
EINECS: 216-367-7	� Skin Irrit. 2, H315; Eye Irrit. 2, H319	
	Triethyleneglycol dimethacrylate	<5%
EINECS: 203-652-6	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
	titanium dioxide	<5%
EINECS: 236-675-5	& Carc. 2, H351	

· Other ingredients:

Silanated barium glass filler Hydrophobic aromatic dimethacrylate

- Silanated fluoroalminosilicate glass filler Hydrophilic aliphatic dimethacrylate
- Silanated alumina filler
- Accelerators
- Initiator
- Amorphous silica dl-Camphorquinone
- Pigment
- · Additional information:
- Aluminium oxide; Nanoform, Silanated alumina, particle size 1 100 nm Silicon oxide; Nanoform, Amorphous silica, particle size 1 - 100 nm

SECTION 4: First aid measures

· 4.1 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: Immediately wash with water and soap and rinse thoroughly.

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· 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.
- · 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures See Section 8.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:
- Pick up mechanically. Ensure adequate ventilation.
- 6.4 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.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.

- ·7.2 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 container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- Protect from heat and direct sunlight.
- •7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients 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 valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.

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• Respiratory protection: Not required.

• Hand protection



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.

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/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties		
· General Information		
· Physical state	Solid	
· Colour:	According to product specification	
· Odour:	Odourless	
 Melting point/freezing point: 	Not determined	
· Boiling point or initial boiling point and boiling		
range	Not determined	
· Flammability	Not determined	
Lower and upper explosion limit		
· Lower:	Not determined	
· Upper:	Not determined	
· Flash point:	Not determined	
· Auto-ignition temperature:	Not determined	
 Decomposition temperature: 	Not determined	
· pH	Not determined	
· Viscosity:	Not determined	
Solubility		
water:	Insoluble.	
· Partition coefficient n-octanol/water (log value)	Not determined.	
· Vapour pressure:	Not determined.	
· Density and/or relative density		
Density:	1.8 g/cm^3	
· Relative density	Not determined	
Relative vapour density	Not determined	
Particle characteristics	See item 3.	
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9.2 Other information	
Appearance:	
Form:	Pasty
Important information on protection of heal	th and
environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Softening point/range	
Oxidising properties	Not determined.
Evaporation rate	Not determined
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flamm	able
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Causes skin irriation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- Suspected of causing cancer. Route of exposure: Inhalation.
- \cdot Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- \cdot 12.4 Mobility in soil No further relevant information available.
- \cdot 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Additional ecological information:

· General notes:

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

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Maritime transport in bulk according instruments	to IMO Not applicable.	
· UN "Model Regulation":	Void	

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SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • Directive 94/33/EC: Care should be taken when people under 18 handle this product.

• Directive 94/85/EEC: No further relevant information available.

· Chemical safety assessment

· Named dangerous substances - ANNEX I None of the ingredient is listed.

· Regulation (EU) No 649/2012

• Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

Abbreviations and acronyms:

ELINCS: European List of Notified Chemical Substances

Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

* Data compared to the previous version altered.



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Revision date: 11.09.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: PANAVIA V5 ; Tooth Primer

- · Article number: 214-TP
- **Registration number** Not applicable
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the mixture Dental material

· 1.3 Details of the supplier of the safety data sheet

· Supplier :

Kuraray Europe GmbH

Philipp-Reis-Str. 4, 65795 Hattersheim am Main Germany Phone: +49 (0)69 305 35 835 E-mail: dental.eu@kuraray.com

• Further information obtainable from: Supplier

· 1.4 Emergency telephone number:

[United Kingdom] National Poisons Information Service (NPIS): +44 (0)344 892 0111 Only for NHS and other healthcare professionals

3E Company; (UK) 0 800 680 0425 (GB) +44 20 35147487 (AU) +61 2 80363166 *Kuraray Access Code: 334674

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Additional information

Medical devices as defined in Regulation (EU) 2017/745 and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (GB CLP/ GHS) usually if they are in the finished state and intended for the final user.

· 2.2 Label elements

\cdot Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation. • Hazard pictograms



· Signal word Warning

- · Hazard-determining components of labelling:
- 2-hydroxyethyl methacrylate
- 2-dimethylaminoethyl methacrylate

· 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 / eye protection / face protection.



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P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P33	8 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.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· 2.3 Other hazar	ds

2.5 Other hazarus

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 868-77-9 2-hydroxyethyl methacrylate		25-50%
EINECS: 212-782-2	🐼 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	2-dimethylaminoethyl methacrylate	<3%
EINECS: 220-688-8	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2,	
	H319; Skin Sens. 1, H317	
~ ~		

• Other ingredients:

Water

10-Methacryloyloxydecyl dihydrogen phosphate Hydrophilic aliphatic dimethacrylate

Accelerator

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Avoid contact with eyes.

- Avoid contact with skin.
- · 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.
- · 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- \cdot 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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• 5.3 Advice for firefighters

• Protective equipment: No special measures required.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures See Section 8.

· 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up:

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

• 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

- · Information about fire and explosion protection: No special measures required.
- ·7.2 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 container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients 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 valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls 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.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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Trade name: PANAVIA V5 ; Tooth Primer

· Hand protection



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.

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/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

0.1 Information on basis abusis log data to the			
9.1 Information on basic physical and chemical properties			
• Physical state	Liquid		
Colour:	Light blue		
· Odour:	Odourless		
• Melting point/freezing point:	Not determined		
Boiling point or initial boiling point and boiling			
range	205 °C (2-hydroxyethyl methacrylate)		
· Flammability	Not determined.		
· Lower and upper explosion limit			
· Lower:	Not determined		
· Upper:	Not determined		
· Flash point:	97 °C (2-hydroxyethyl methacrylate)		
· Auto-ignition temperature:	Not determined		
· Decomposition temperature:	Not determined		
∙рН	≤2.3		
· Kinematic viscosity	Not determined.		
· Solubility			
· water:	Fully miscible.		
· Partition coefficient n-octanol/water (log value)	Not determined		
· Vapour pressure:	Not determined		
· Density and/or relative density			
· Density:	1.1 g/cm^3		
· Relative density	Not determined		
· Relative vapour density	Not determined		
9.2 Other information			
 Important information on protection of health an environment, and on safety. 	· Important information on protection of health and environment, and on safety		
· Explosive properties:	Product does not present an explosion hazard.		
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· Change in condition		
· Softening point/range		
· Oxidising properties	Not determined	
· Oxidising gases	Void	
Gases under pressure	Void	
· Flammable liquids	Void	
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamm	able	
gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

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

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values relevant for classification:

868-77-9 2-hydroxyethyl methacrylate

Oral LD50 4680 mg/kg (guinea pig)

3275 mg/kg (mouse)

5050 mg/kg (rat)

• Skin corrosion/irritation Causes skin irriation.

· Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin sensitisation

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.

• STOT-single exposure Based on available data, the classification criteria are not met.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

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

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Trade name: PANAVIA V5 ; Tooth Primer

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- \cdot 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (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.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

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

SECTION 14: Transport information

*		
• 14.1 UN number or ID number • ADR, ADN, IMDG, IATA	Void	
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, ADN, IMDG, IATA	Void	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according instruments	to IMO Not applicable.	
		(Contd. on page 7



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Trade name: PANAVIA V5 ; Tooth Primer

· UN "Model Regulation":

Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- Directive 94/33/EC: Care should be taken when people under 18 handle this product.

• Directive 94/85/EEC: No further relevant information available.

· Named dangerous substances - ANNEX I None of the ingredient is listed.

· Regulation (EU) No 649/2012

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

Abbreviations and acronyms:

ELINCS: European List of Notified Chemical Substances Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation - Category 1

** Data compared to the previous version altered.



Printing date 04.08.2023

Version number 4

Revision date: 04.08.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

• Trade name: PANAVIA V5 ; Try-in Paste

- · Article number: 214-Ti
- **Registration number** Not applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the mixture Dental colour matching test material

· 1.3 Details of the supplier of the safety data sheet

Supplier : Kuraray Europe GmbH Philipp-Reis-Str. 4, 65795 Hattersheim am Main Germany Phone: +49 (0)69 305 35 835 E-mail: dental.eu@kuraray.com

· Further information obtainable from: Supplier

• 1.4 Emergency telephone number:

- 3E Company ; (UK) 0 800 680 0425
 - (GB) +44 20 35147487 (AU) +61 2 80363166
 - Kuraray Access Code: 334674

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.

· Additional information

Medical devices as defined in Regulation (EU) 2017/745 and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (GB CLP/ GHS) usually if they are in the finished state and intended for the final user.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



· Signal word Warning

- · Hazard-determining components of labelling:
- titanium dioxide
- · Hazard statements
- H351 Suspected of causing cancer. Route of exposure: Inhalation.
- · Precautionary statements
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Safety data sheet according to 1907/2006/EC, Article 31

Version number 4

Trade name: PANAVIA V5 ; Try-in Paste

· Labelling of packages where the contents do not exceed 125 ml

· Precautionary statements

EUH212: Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 56-81-5 EINECS: 200-289-5	Glycerol	substance with a Community workplace exposure limit	75-95%
CAS: 60676-86-0 EINECS: 262-373-8		substance with a Community workplace exposure limit	<10%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide	& Carc. 2, H351	<5%

Other ingredients:

Silanated amorphous silica

- Amorphous silica
- Pigments

Additional information:

Silicon oxide; Nanoform, Amorphous silica and Silanated amorphous silica, particle size 1 - 100 nm

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- After inhalation: Supply fresh air and to be sure call for a doctor.
- 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.
- · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures See Section 8.
- \cdot 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **6.3** Methods and material for containment and cleaning up:

Pick up mechanically. Ensure adequate ventilation.

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^{· 3.2} Mixtures



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Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: PANAVIA V5 ; Try-in Paste

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• 6.4 Reference to other sections No dangerous substances are released.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special measures required.

· Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Store in a cool location (2-25°C).

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- Keep container tightly sealed.

Protect from heat and direct sunlight.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· 8.1 Control parameters			
· Ingredients with limit values that require monitoring at the workplace:			
56-81-5 Glycerol	56-81-5 Glycerol		
WEL	Long-term value: 10 mg/m ³		
60676-86-0 Silica, fu	sed		
WEL (Great Britain)	Long-term value: 0.08 mg/m ³		
	fused respirable dust		
13463-67-7 titanium	13463-67-7 titanium dioxide		
WEL (Great Britain)	WEL (Great Britain) Long-term value: 10* 4** mg/m ³		
*total inhalable **respirable			
• Additional information: The lists valid during the making were used as basis.			

· 8.2 Exposure controls

• Appropriate engineering controls No further data; see section 7.

· Personal protective equipment:

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

· Respiratory protection: Suitable respiratory protective device recommended.

· Hand protection

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.

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Trade name: PANAVIA V5 ; Try-in Paste

 \cdot Eye/face protection Goggles recommended during refilling

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical p	-		
· Physical state	Solid		
· Colour:	Coloured		
· Odour:	Odourless		
 Melting point/freezing point: 	18.2 °C (glycerol)		
· Boiling point or initial boiling point and boiling			
range	290.0 °C (glycerol)		
· Flammability	Not determined.		
· Lower and upper explosion limit			
· Lower:	0.9 Vol % (glycerol)		
· Upper:	Not determined		
· Flash point:	$160 ^{\circ} C (\text{glycerol})$		
· Auto-ignition temperature:	400.0 °C (glycerol)		
	Not determined		
• Decomposition temperature:	Not determined		
· pH			
· Solubility	Develop a child		
• water:	Partly soluble.		
· Partition coefficient n-octanol/water (log value)	Not determined		
Vapour pressure:	0.1 hPa (20°C, glycerol)		
· Density and/or relative density			
· Density:	1.2 g/cm^3		
· Relative density	Not determined		
[.] Relative vapour density	Not determined		
 Particle characteristics 			
See section 3.			
• 9.2 Other information			
· Important information on protection of health an	d		
environment, and on safety.	u		
· Explosive properties:	Draduat dags not present an avalagian bazard		
	Product does not present an explosion hazard.		
• Change in condition			
• Softening point/range			
• Oxidising properties	Not determined		
• Oxidising gases	Void		
· Gases under pressure	Void		
· Flammable liquids	Void		
Flammable solids	Void		
· Self-reactive substances and mixtures	Void		
· Pyrophoric liquids	Void		
· Pyrophoric solids	Void		
· Self-heating substances and mixtures	Void		
· Substances and mixtures, which emit flammable			
gases in contact with water	Void		
· Oxidising liquids	Void		
· Oxidising solids	Void		
· Organic peroxides	Void		
· Corrosive to metals	Void		
· Desensitised explosives	Void		
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Trade name: PANAVIA V5 ; Try-in Paste

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SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- Suspected of causing cancer. Route of exposure: Inhalation.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

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

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- \cdot Recommendation Smaller quantities can be disposed of with household waste.

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Trade name: PANAVIA V5 ; Try-in Paste

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- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

SECTION II. Hansport mittination	
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, ADN, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
• 14.7 Maritime transport in bulk according to instruments	IMO Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Directive 94/33/EC: Care should be taken when people under 18 handle this product.
- Directive 94/85/EEC: No further relevant information available.
- · Named dangerous substances ANNEX I None of the ingredient is listed.

· Regulation (EU) No 649/2012

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

H351 Suspected of causing cancer.

· Abbreviations and acronyms:

ELINCS: European List of Notified Chemical Substances

Carc. 2: Carcinogenicity – Category 2

 \cdot * Data compared to the previous version altered.



Printing date 14.04.2023

Version number 3

Revision date: 14.04.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: CLEARFIL CERAMIC PRIMER PLUS

- Article number: 215
- · Registration number Not applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.

· Application of the substance / the mixture Adhesive, dental ceramic/ Adhesive, dental metal

· 1.3 Details of the supplier of the safety data sheet

· Supplier : Kuraray Europe GmbH Philipp-Reis-Str. 4, 65795 Hattersheim am Main Germany Phone: +49 (0)69 305 35 835 E-mail: dental.eu@kuraray.com · Further information obtainable from: Supplier · 1.4 Emergency telephone number: (UK) 0 800 680 0425

- (GB) +44 20 35147487 (AU)+61280363166
- * 3E Company
- * Kuraray Access Code:334674

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

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

· Additional information

Medical devices as defined in Regulation (EU) 2017/745 and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (GB CLP/ GHS) usually if they are in the finished state and intended for the final user.

Additional information:

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (GB CLP/GHS) usually if they are in the finished state and intended for the final user.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



· Signal word Danger

· Hazard statements

H225 Highly flammable liquid and vapour.

- · Precautionary statements
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- Ground and bond container and receiving equipment. P240
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P242 Use non-sparking tools.

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Trade name: CLEARFIL CERAMIC PRIMER PLUS

	(Contd. of page 1)		
P243	Take action to prevent static discharges.		
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.		
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].			
P403+P235	Store in a well-ventilated place. Keep cool.		
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.		
2.3 Other hazards			
· Results of PBT and vPvB assessment			

Results of PDT and VP

• **PBT:** Not applicable. • **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances None

· 3.2 Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

8	1	
CAS: 64-17-5	ethanol	♦ Flam. Liq. 2, H225 >80%
EINECS: 200-5	578-6	• • • •
	•	

• Other ingredients:

3-Trimethoxysilylpropyl methacrylate

10-Methacryloyloxydecyl dihydrogen phosphate

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact: Immediately rinse with water.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Do not induce vomiting; call for medical help immediately.

If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures See Section 8.

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GB

(Contd. of page 2)



Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: CLEARFIL CERAMIC PRIMER PLUS

· 6.2 Environmental precautions:

Dilute with plenty of water.

- Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Ensure adequate ventilation.

6.4 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.

SECTION 7: Handling and storage

- •7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

- · 7.2 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 oxidising agents.
- Store away from reducing agents.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

[.] Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- · Hand protection

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.

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⁻ GB



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Trade name: CLEARFIL CERAMIC PRIMER PLUS

· 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/face protection Safety glasses

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical provident	roperties
General Information	
· Physical state	Liquid
Colour:	Colourless
· Odour:	Alcohol-like
• Melting point/freezing point:	-114.5 °C (ethanol)
· Boiling point or initial boiling point and boiling	
range	78 °C (ethanol)
0	Flammable.
Flammability	riammaole.
· Lower and upper explosion limit	
· Lower:	3.5 Vol % (ethanol)
· Upper:	15.0 Vol % (ethanol)
· Flash point:	13 °C (ethanol)
· Auto-ignition temperature:	425.0 °C (ethanol)
· Decomposition temperature:	Not determined
·pH	Not determined
· Viscosity:	Not determined
· Kinematic viscosity	Not determined.
	The determined.
Solubility	Doutly missible
water:	Partly miscible.
· Partition coefficient n-octanol/water (log value)	-0.32 (ethanol)
· Vapour pressure:	59.0 hPa (20°C, ethanol)
 Density and/or relative density 	
· Density:	0.8 g/cm^3
· Relative density	Not determined
· Relative vapour density	1.6 g/cm ³ (ethanol, air=1)
9.2 Other information	
· Appearance:	T :: 1
· Form:	Liquid
Important information on protection of health an	d
environment, and on safety.	
· Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
· Change in condition	
· Softening point/range	
· Oxidising properties	Not determined
· Evaporation rate	Not determined
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	, olu
Highly flammable liquid and vapour.	X7-:4
Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable	
gases in contact with water	Void
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Trade name: CLEARFIL CERAMIC PRIMER PLUS

		(Contd. of page 4)
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values 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 22,600 mg/kg (rat) LD50 Dermal 500 mg/kg (rabbit) • Skin corrosion/irritation Based on available data, the classification criteria are not met. • Serious eve damage/irritation Based on available data, the classification criteria are not met. • Respiratory or skin sensitisation 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.

- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- \cdot Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

(Contd. on page 6)



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Safety data sheet according to 1907/2006/EC, Article 31

Version number 3

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Trade name: CLEARFIL CERAMIC PRIMER PLUS

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· 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (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.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

· Uncleaned packaging:

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

SECTION 14: Transport information

 14.1 UN number or ID number 	
· ADR, IMDG, IATA	1170
· 14.2 UN proper shipping name · ADR	1170 ETHANOL (ETHYL ALCOHOL), mixture
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	3 Flammable liquids.
·Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	
· Marine pollutant:	No
• 14.6 Special precautions for user	Warning: Flammable liquids.
[•] Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-D
· 14.7 Maritime transport in bulk according to IMO	
instruments	Not applicable.
· UN "Model Regulation":	UN1170; ETHANOL (ETHYL ALCOHOL), mixture; 3; II

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Trade name: CLEARFIL CERAMIC PRIMER PLUS

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GB

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • Directive 94/33/EC: Care should be taken when people under 18 handle this product.

- Directive 94/85/EEC: No further relevant information available.
- · Chemical safety assessment
- · Named dangerous substances ANNEX I None of the ingredient is listed.
- · Seveso category FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 vapour.
- Abbreviations and acronyms:
- ELINCS: European List of Notified Chemical Substances
- Flam. Liq. 2: Flammable liquids Category 2
- ** Data compared to the previous version altered.



Eye Dam. 1

· Additional information

· 2.2 Label elements

· Hazard pictograms

· Signal word Danger

· Precautionary statements

phosphoric acid · Hazard statements

GHS05

P101

P102

P103

P260

P280

uraray	Safety data sheet according to 1907/2006/EC, Article 3	Page 1/8	
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SECTION 1: Identifie	cation of the substance/mixture and	of the company/undertaking	
· 1.1 Product identifier			
[.] Trade name: K-ETCHAN	T Syringe		
No further relevant informa	es of the substance or mixture and uses adv tion available.	ised against	
 Application of the substance / the mixture Dental material 1.3 Details of the supplier of the safety data sheet Supplier : Kuraray Europe GmbH Philipp-Reis-Str. 4, 65795 Hattersheim am Main Germany Phone: +49 (0)69 305 35 835 E-mail: dental.eu@kuraray.com Further information obtainable from: Supplier 1.4 Emergency telephone number: [United Kingdom] National Poisons Information Service (NPIS): +44 (0)344 892 0111 Only for NHS and other healthcare professionals 3E Company; (UK) 0 800 680 0425 (GB) +44 20 35147487 (AU) +61 2 80363166 *Kuraray Access Code: 334674 			
SECTION 2: Hazard	s identification		
· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008			

Medical devices as defined in Regulation (EU) 2017/745 and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (GB CLP/

If medical advice is needed, have product container or label at hand.

Wear protective gloves/protective clothing/eye protection/face protection/hearing

(Contd. on page 2)

GB

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

· Labelling according to Regulation (EC) No 1272/2008

· Hazard-determining components of labelling:

H314 Causes severe skin burns and eye damage.

protection.

Keep out of reach of children.

Do not breathe dusts or mists.

Read carefully and follow all instructions.

GHS) usually if they are in the finished state and intended for the final user.

The product is classified and labelled according to the GB CLP regulation.



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Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: K-ETCHANT Syringe

	(Contd. of page 1)
P303+P361+P	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· 2.3 Other haz	ards
· Desults of DD	T and vDvD assassment

Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

Dungerous components.		
	LL	25-45%
EINECS: 231-633-2	🔗 Skin Corr. 1B, H314	
	Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 %	
	Skin Irrit. 2; H315: 10 % ≤ C < 25 %	
	Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
• Other ingredients:		

Water Polyethyleneglycol Amorphous silica

Pigment

· Additional information: Silicon oxide; Nanoform, Amorphous silica, particle size 1 - 100 nm

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Avoid contact with eyes.

Avoid contact with skin.

- After inhalation: 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. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

• 5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures See Section 8.

· 6.2 Environmental precautions:

- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 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.

SECTION 7: Handling and storage

•7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

- · Information about fire and explosion protection: No special measures required.
- ·7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location (2-25°C).
- · Information about storage in one common storage facility:

Store away from oxidising agents.

Store away from reducing agents.

· Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

[•] Ingredients with limit values that require monitoring at the workplace:		
7664-38-2 phosphoric acid		
WEL (Great Britain)	Short-term value: 2 mg/m ³	
	Long-term value: 1 mg/m ³	
IOELV (EU)	Short-term value: 2 mg/m ³	
	Long-term value: 1 mg/m ³	
Additional information: The lists valid during the making were used as basis.		
· 8.2 Exposure controls		

• Appropriate engineering controls No further data; see section 7.

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- · 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.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Hand protection



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.

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/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

·9.1 Information on basic physical and chemical properties			
· Physical state	Liquid		
· Colour:	Blue		
· Odour:	Odourless		
 Melting point/freezing point: 	42.4 °C (phosphoric acid)		
· Boiling point or initial boiling point and boiling			
range	Not determined.		
· Flammability	Not determined.		
• Lower and upper explosion limit			
· Lower:	Not determined		
· Upper:	Not determined		
· Flash point:	Not determined		
• Auto-ignition temperature:	Not determined		
· Decomposition temperature:	Not determined		
· pH	1.7 - 2.1		
· Viscosity:	Not determined		
· Kinematic viscosity	Not determined.		
· Dynamic:	Not determined.		
· Solubility			
· water:	Partly miscible.		

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	(Contd. of page
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined
Relative vapour density	Not determined
9.2 Other information	
Important information on protection of health an	d
environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

7664-38-2 phosphoric acid

Oral LD50 1,250 mg/kg (mouse)

1,250 mg/kg (rat)

Dermal LD50 2,740 mg/kg (rabbit)

· Skin corrosion/irritation Causes severe skin burns and eye damage.

· Serious eye damage/irritation Causes serious eye damage.

· Respiratory or skin sensitisation 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.

 \cdot Reproductive toxicity Based on available data, the classification criteria are not met.

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- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards • Endocrine disrupting properties
- None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

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

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

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

SECTION 14: Transport information

• 14.1 UN number or ID number • ADR, IMDG, IATA

UN1805

· 14.2 UN proper shipping name

- ·ADR
- · IMDG, IATA

1805 PHOSPHORIC ACID, SOLUTION PHOSPHORIC ACID, SOLUTION

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	(Contd. of page of
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
a a	
· Class	8 Corrosive substances.
·Label	8
14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
[•] 14.6 Special precautions for user	Warning: Corrosive substances.
· Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
· Segregation groups	(SGG1) Acids
· Stowage Category · Segregation Code	A SG36 Stow "separated from" SGG18-alkalis.
Segregation Code	SG30 Stow "separated from" SGG6-cyanides
· 14.7 Maritime transport in bulk according to IM	1 ,
instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
Transport category	3
• Tunnel restriction code	Е
·IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • Directive 94/33/EC: Care should be taken when people under 18 handle this product.

• Directive 94/85/EEC: No further relevant information available.

· Named dangerous substances - ANNEX I None of the ingredient is listed.

· Regulation (EU) No 649/2012

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



Printing date 29.09.2023

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SECTION 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

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H314 Causes severe skin burns and eye damage.

· Abbreviations and acronyms:

- ELINCS: European List of Notified Chemical Substances
- Skin Corr. 1B: Skin corrosion/irritation Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation Category 1 *** * Data compared to the previous version altered.**