

Printing date 29.09.2016

Version number 2

Revision: 29.09.2016

inting date 29.09.2016	Version number 2	Revision: 29.09.2016
SECTION 1: Identification	on of the substance/mixture and of t	the company/undertaking
• 1.1 Product identifier		
Trade name: PANAVIA V5 ; I	Paste	
<ul> <li>Article number: 214-P</li> <li>Registration number Not applie</li> <li>1.2 Relevant identified uses of No further relevant information a</li> </ul>	cable the substance or mixture and uses advised	-
• <b>1.4 Emergency telephone numl</b> National Poisons information Se Guy's & St. Thomas' Hospital T Medical Toxicology Unit Avonley Road LONDON SE14 5ER	e from: Manufacturer or Supplier ber: rvice (London Centre) rust 70 600 6266 or +44 20 7771 5394	
Facsimile number: +44 20 7 771		
SECTION 2: Hazards ide	ntification	
· 2.1 Classification of the substa	nce or mixture	
Classification according to Reg	gulation (EC) No 1272/2008	
GHS07		
Skin Irrit. 2 H315 Causes skin i	irritation	
Skin IIII. 2 H313 Causes skin i	initiation.	
Eye Irrit. 2 H319 Causes serior	us eve irritation	

The product is classified and labelled according to the CLP regulation. • Hazard pictograms GHS07 • Signal word Warning

- · Hazard statements
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

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

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## Trade name: PANAVIA V5 ; Paste

## · Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

- P302+P352 IF ON SKIN: Wash with plenty of water.
- P362+P364 Take off contaminated clothing and wash it before reuse.

Labelling of packages where the contents do not exceed 125 ml

#### · Hazard-determining components of labelling:

bisphenol A diglycidylmethacrylate

triethyleneglycol dimethacrylate

· 2.3 Other hazards

#### · Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

# **SECTION 3: Composition/information on ingredients**

#### · 3.2 Chemical characterisation: Mixtures

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

· Dangerous components:			
CAS: 1565-94-2	bisphenol A diglycidylmethacrylate	5-15%	
EINECS: 216-367-7	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319		
CAS: 109-16-0	triethylene glycol dimethacrylate	<5%	
EINECS: 203-652-6 🕢 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335			
Other ingredients:			
Silanated barium glass filler			
Silanated fluoroalminosilicate glass filler			

Silanated barium glass filler Silanated fluoroalminosilicate glass filler Colloidal silica Surface treated aluminum oxide filler Hydrophobic aromatic dimethacrylate Hydrophilic aliphatic dimethacrylate dl-Camphorquinone Initiators Accelerators

Accelerato Pigments

# **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.
- · 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.

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

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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.
- 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**

• Additional information about design of technical facilities: No further data; see item 7.

- · 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
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.

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Trade name: PANAVIA V5 ; Paste

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

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

# **SECTION 9: Physical and chemical properties**

General Information Appearance:		
Form:	Pasty	
Colour:	Coloured	
Odour:	Odourless	
pH-value:	Not determined	
Change in condition		
Melting point/Melting range:	Not determined	
<b>Boiling point/Boiling range:</b>	Not determined	
Flash point:	Not determined	
Flammability (solid, gaseous):	Not determined	
Ignition temperature:		
Decomposition temperature:	Not determined	
Self-igniting:	Not determined	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
Vapour pressure:	Not determined	
Density:	1.8 g/cm <sup>3</sup>	
Relative density	Not determined	
Vapour density	Not determined	
Evaporation rate	Not determined	
Solubility in / Miscibility with		
water:	Insoluble.	



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· Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Not determined

•9.2 Other information

No further relevant information available.

# **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 toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- **Primary irritant effect:**

· Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Acute effects (acute toxicity) Not applicable

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- 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.

# **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.

· Additional ecological information:

· General notes:

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

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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## **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 · ADR, ADN, IMDG, IATA	Void
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	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 Transport in bulk according to Annex II Marpol and the IBC Code	of Not applicable.
· 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.
- 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.
- Abbreviations and acronyms:

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

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

\*\* Data compared to the previous version altered.



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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 bonding material         1.3 Details of the supplier of the safety data sheet         • Manufacturer:         Kuraray Europe GmbH         Philips-Reis-Str. 4,         65795 Hattersheim am Main         Germany         Phone: +49 (0)69 305 35 840         E-mait: dental@kuraray.de         Supplier:         J & S Davis         S Whitworth Road, Stevenage,         Hertfordshir, SG1 4QS         Great Britain         Tet: +44- (0) 1438 74344         Fax: +44 (0)1438 74344         Fax: +44 (0)1438 74344         Fax: +44 (0) 1438 74344         Fax: +45 (0) 1438 7435004         E-mait: jadaele	
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• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008	
Classification according to Regulation (EC) No 1272/2008	SECTION 2: Hazards identification
	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.

· 2.2 Label elements

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

- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms GHS07 Signal word Warning
- · Hazard-determining components of labelling:

2-hydroxyethyl methacrylate

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· Hazard statem				
H315 Causes sk	tin irritation.			
H319 Causes se	prious eye irritation.			
H317 May caus	e an allergic skin reaction.			
· Precautionary	statements			
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.			
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if				
	present and easy to do. Continue rinsing.			
P321	Specific treatment (see on this label).			
P363	Wash contaminated clothing before reuse.			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P302+P352	IF ON SKIN: Wash with plenty of water.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
P501	Dispose of contents/container in accordance with local/regional/national/international			
	regulations.			
· 2.3 Other hazards				
· Results of PBT and vPvB assessment				
regulations. • 2.3 Other hazards				

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

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Chemical characterisation: Mixtures

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

· Dangerous components:

CAS: 868-77-9 2-hydroxyethyl methacrylate

EINECS: 212-782-2 🐼 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317

Other ingredients:

10-Methacryloyloxydecyl dihydrogen phosphate Hydrophilic aliphatic dimethacrylate Accelerators Water

## **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.
- · 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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GB

25-50%



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# **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:
- 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.
- Prevent formation of aerosols.
- · 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**

• Additional information about design of technical facilities: No further data; see item 7.

· 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
- · 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.



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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.

#### · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:



Tightly sealed goggles

## **SECTION 9: Physical and chemical properties**

0.1 Information on basic physical and chemical properties				
• 9.1 Information on basic physical and chemical properties • General Information				
· Appearance:				
Form:	Liquid			
Colour:	Light blue			
· Odour:	Odourless			
· pH-value:	<2.3			
• Change in condition				
Melting point/Melting range:	Not determined			
<b>Boiling point/Boiling range:</b>	205 °C (2-hydroxyethyl methacrylate)			
· Flash point:	97 °C (2-hydroxyethyl methacrylate)			
· Ignition temperature:	Not determined			
• Decomposition temperature:	Not determined			
· Self-igniting:	Not determined			
Danger of explosion:	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	Not determined			
Upper:	Not determined			
• Oxidising properties	Not determined			
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Vapour pressure:	Not determined	
Density:	$1.1 \text{ g/cm}^3$	
Relative density	Not determined	
Vapour density	Not determined	
Evaporation rate	Not determined	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient (n-octano	l/water): Not determined	
Viscosity:	Not determined	
9.2 Other information	No further relevant information available.	

## **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 toxicological effects

• 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)

#### · Primary irritant effect:

- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- Acute effects (acute toxicity) Not applicable
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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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## **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.
- · 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.

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

• 12.6 Other adverse effects No further relevant information available.

#### **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			
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 Transport in bulk according to Annex II of			
Marpol and the IBC Code	Not applicable.		
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.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3



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Trade name: PANAVIA V5; Tooth Primer

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• 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.

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

#### · Abbreviations and acronyms:

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.



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Version number 2

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1.1 Product	identifier	
Trade name:	: CLEARFIL CERAMIC PRIMER PLUS	
	number Not applicable	
No further rel	: identified uses of the substance or mixture and uses advised against levant information available. of the substance / the mixture Adhesive, dental ceramic/ Adhesive, dental	l metal
••	f the supplier of the safety data sheet	
Manufactur		
Kuraray Euro		
Philipp-Reis-	-Str. 4, rsheim am Main	
Germany		
Phone:+49 (0	0)69 305 35 840	
	9 305 35 640	
	al@kuraray.de	
Supplier: J & S Davis		
	Road, Stevenage,	
Hertfordshir,		
Great Britain $T_{21}$ : $\pm 44$ (0)	1438 747344	
	1438 747344	
	les@js-davis.co.uk	
	rmation obtainable from: Manufacturer or Supplier	
	acy telephone number: sons information Service (London Centre)	
	Thomas' Hospital Trust	
Medical Toxi		
Avonley Roa	d	
LONDON SE14 5ER		
	elephone: (local) 0870 600 6266 or +44 20 7771 5394	
Administrativ	ve telephone: +44 20 7 771 53 10	
Facsimile nui	mber: +44 20 7 771 53 09	
SECTION	2: Hazards identification	
	ation of the substance or mixture n according to Regulation (EC) No 1272/2008	
GF	HS02 flame	
Flam. Liq. 2	H225 Highly flammable liquid and vapour.	
2.2 Label ele		
	cording to Regulation (EC) No 1272/2008	
	is classified and labelled according to the CLP regulation. ograms GHS02	
Signal word		
Hazard state	ements	
	flammable liquid and vapour.	
Precautional P210	ry statements Keep away from heat, hot surfaces, sparks, open flames and other ign	ition sources No
	smoking.	
1210	billoning.	
P241	Use explosion-proof electrical/ventilating/lighting/equipment.	(Contd. on page 2



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# Trade name: CLEARFIL CERAMIC PRIMER PLUS

)

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

# **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances None
- · 3.2 Chemical characterisation: Mixtures
- $\cdot$  **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous	components:
-------------	-------------

	Dangerous components.				
		ethanol	>80%		
	EINECS: 200-578-6	🚸 Flam. Liq. 2, H225			
		3-trimethoxysilylpropyl methacrylate	< 5%		
	EINECS: 219-785-8	🐼 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335			
Other ingredients: 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.

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Wear fully protective suit.

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# **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 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).

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

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethanol

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

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

- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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(Contd. of page 3) Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### • Eye protection:



\*

Tightly sealed goggles

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and	chemical properties
General Information	
Appearance: Form:	Liquid
Colour:	Colourless
· Odour:	Alcohol-like
pH-value:	Not determined
· Change in condition	
Melting point/Melting range:	-114.5 °C (ethanol)
<b>Boiling point/Boiling range:</b>	78 °C (ethanol)
· Flash point:	13 °C (ethanol)
· Ignition temperature:	425.0 °C (ethanol)
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive. However, formation of explosive air/
	vapour mixtures are possible.
· Explosion limits:	
Lower:	3.5 Vol % (ethanol)
Upper:	15.0 Vol % (ethanol)
Oxidising properties	Not determined
· Vapour pressure:	59.0 hPa (20 °C, ethanol)
Density:	0.8 g/cm <sup>3</sup>
· Relative density	Not determined
· Vapour density	1.6 g/cm <sup>3</sup> (ethanol, air=1)
· Evaporation rate	Not determined
Solubility in / Miscibility with	
water:	Partly miscible.
· Partition coefficient (n-octanol/water)	
· Viscosity:	Not determined
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• 9.2 Other information

No further relevant information available.

# **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 toxicological effects
- 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	22600 mg/kg (rat)		
Dermal	LD50	500 mg/kg (rabbit)		

Primary irritant effect:

· 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.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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.

## **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.
- · 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. • 12.5 Results of PBT and vPvB assessment

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

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# Trade name: CLEARFIL CERAMIC PRIMER PLUS

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• 12.6 Other adverse effects No further relevant information available.

## **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	tion
· 14.1 UN-Number · ADR, IMDG, IATA	1170
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG</li> <li>IATA</li> </ul>	1170 ETHANOL (ETHYL ALCOHOL), mixture ETHANOL (ETHYL ALCOHOL), mixture ETHANOL, mixture
• 14.3 Transport hazard class(es) • ADR, IMDG, IATA	
Class Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No
<ul> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	Warning: Flammable liquids. 33 F-E,S-D
· 14.7 Transport in bulk according to Anno Marpol and the IBC Code	ex II of Not applicable.
· UN "Model Regulation":	UN1170; ETHANOL (ETHYL ALCOHOL), mixture; 3; II

# **SECTION 15: Regulatory information**

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

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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

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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

H225 Highly flammable liquid and vapour.

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

#### · Abbreviations and acronyms:

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\* Data compared to the previous version altered.

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