Printing date 14.05.2019

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Version number 3

Revision: 14.05.2019

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

· 1.1 Product identifier

· Trade name: Ivoclean

· 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 Extraoral cleaning paste for indirect restorations
- · 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Ivoclar Vivadent AG Bendererstrasse 2 9494 Schaan PRINCIPALITY OF LIECHTENSTEIN

Tel: +423 235 35 35 Fax: +423 235 33 60

• Further information obtainable from: Regulatory Affairs sds@ivoclarvivadent.com · 1.4 Emergency telephone number: +423 / 235 33 13 (Ivoclar Vivadent AG, 9494 Schaan, Liechtenstein)

## **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008

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

· 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



· Signal word Danger · Hazard-determining components of labelling: sodium hvdroxide Hazard statements H314 Causes severe skin burns and eye damage. · Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eve protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 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. · 2.3 Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable.

Printing date 14.05.2019

Version number 3

Revision: 14.05.2019

# Trade name: Ivoclean

(Contd. of page 1)

1-<2%

· 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: 1310-73-2
 sodium hydroxide
 Skin Corr. 1A, H314

 EINECS: 215-185-5
 Reg.nr.: 01-2119457892-27-xxxx
 Skin Corr. 1A, H314

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:
- Immediately rinse with water.
- If skin irritation continues, consult a doctor.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Rinse out mouth and then drink plenty of water.
- Call 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.
- 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 Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: 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). Dispose contaminated material as waste according to item 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.

(Contd. on page 3)

GB

Printing date 14.05.2019

Version number 3

Revision: 14.05.2019

## Trade name: Ivoclean

(Contd. of page 2)

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Only adequately trained personnel should handle this product. For use in dentistry only. 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 only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- 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:

#### CAS: 1310-73-2 sodium hydroxide

WEL Short-term value: 2 mg/m<sup>3</sup>

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

- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Usual hygienic measures for dental practice and dental laboratories.
- Immediately remove all soiled and contaminated clothing
- Keep away from foodstuffs, beverages and feed.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Do not inhale gases / fumes / aerosols.
- Respiratory protection:
- Not necessary if room is well-ventilated.

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.

- Recommended filter device for short term use: Filter P (EN 143)
- Protection of hands:



Protective gloves (EN 374)

After use of gloves apply skin-cleaning agents and skin cosmetics.

• Material of gloves Natural rubber, NR Chloroprene rubber, CR Nitrile rubber, NBR Butyl rubber, BR

(Contd. on page 4)

Printing date 14.05.2019

Version number 3

Revision: 14.05.2019

# Trade name: Ivoclean

(Contd. of page 3)

*Fluorocarbon rubber (Viton)* Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Penetration time of glove material

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

• Eye protection:

Tightly sealed goggles (EN 166)

· Body protection: Protective work clothing

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

General Information		
Appearance:		
Form:	Fluid	
Colour:	Violet	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value at 20 °C:	13	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	: Undetermined.	
Flash point:	Not applicable.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not determined.	
Density at 20 °C:	1.0344 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
9.2 Other information	No further relevant information available.	

(Contd. on page 5)

Printing date 14.05.2019

Version number 3

Revision: 14.05.2019

Trade name: Ivoclean

(Contd. of page 4)

#### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability Stable under normal handling and storage conditions.
- 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: None under normal conditions of storage and use.

#### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

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

#### · Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes severe skin burns and eye damage.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information: The classification as "corrosive" is due to the pH-value.
- · 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**

•	<i>12</i> .	1	Toxicity
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• Aquatic toxicity:

#### CAS: 1310-73-2 sodium hydroxide

LC50/96 h 196 mg/l (fish) (Min.)

196 mg/l (fish) (Max.) 196 mg/l (fish) (Median)

CAS: 1310-73-2 sodium hydroxide

EC50/48 h 40.4 mg/l (crustaceans) (Min.)

40.4 mg/l (crustaceans) (Max.)

40.4 mg/l (crustaceans) (Median)

• 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:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

(Contd. on page 6)

Printing date 14.05.2019

Version number 3

Revision: 14.05.2019

# Trade name: Ivoclean

(Contd. of page 5)

#### · 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

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

· European waste catalogue

18 01 06\* chemicals consisting of or containing dangerous substances

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number ADR/RID/ADN, IMDG, IATA	UN1824
14.2 UN proper shipping name ADR/RID/ADN IMDG, IATA	1824 SODIUM HYDROXIDE SOLUTION, mixture SODIUM HYDROXIDE SOLUTION mixture
14.3 Transport hazard class(es)	
ADR/RID/ADN	
Class Label	8 (C5) Corrosive substances. 8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group ADR/RID/ADN, IMDG, IATA	111
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Danger code (Kemler):	<i>Warning: Corrosive substances.</i> 80
EMS Number:	F-A,S-B
Segregation groups	Alkalis

Printing date 14.05.2019

Version number 3

Revision: 14.05.2019

Trade name: Ivoclean

Marpol and the IBC Code	x II of Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
·IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(EQ)$	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN1824, SODIUM HYDROXIDE SOLUTION mixture, 8

#### **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.

#### **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**

H314 Causes severe skin burns and eye damage.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

The classification as "corrosive" is due to the pH-value.

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative Skin Corr. 1: Skin corrosion/irritation – Category 1
- Skin Corr. 1: Skin corrosion/irritation Category 1 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- \* Data compared to the previous version altered.

Printing date 11.01.2016

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Version number 1

Revision: 11.01.2016

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

- · 1.1 Product identifier
- Trade name: SpeedCem Plus (Base)
- 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
- Self-adhesive self-curing dental resin cement with light-curing option
- 1.3 Details of the supplier of the safety data sheet

• *Manufacturer/Supplier:* Ivoclar Vivadent AG Bendererstrasse 2 FL-9494 Schaan PRINCIPALITY OF LIECHTENSTEIN

*Tel:* +423 235 35 35 *Fax:* +423 235 33 60

 Further information obtainable from: Regulatory Affairs sds@ivoclarvivadent.com
 1.4 Emergency telephone number: +423 / 235 33 13 (Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein)

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- $\cdot$  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



· Signal word Warning

Hazard-determining components of labelling: urethane dimethacrylate triethylene glycol dimethacrylate
Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)

GB

Printing date 11.01.2016

Version number 1

Revision: 11.01.2016

## Trade name: SpeedCem Plus (Base)

(Contd. of page 1)

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

· 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: 72869-86-4	urethane dimethacrylate	10-<25%
EINECS: 276-957-5	Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 109-16-0	triethylene glycol dimethacrylate	2.5-<10%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	_
CAS: 25852-47-5	polyethylene glycol dimethacrylate	2.5-<10%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	-
• Additional information: For the wording of the listed risk phrases refer to section 16.		

#### **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.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Rinse with water.

If skin irritation continues, consult a doctor.

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

· After swallowing:

Rinse out mouth and then drink plenty of water.

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.

(Contd. on page 3)

Printing date 11.01.2016

Version number 1

Revision: 11.01.2016

## Trade name: SpeedCem Plus (Base)

(Contd. of page 2)

#### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 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

Only adequately trained personnel should handle this product. For use in dentistry only.

- · 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 only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- $\cdot$  Further information about storage conditions:
- Protect from exposure to the light.
- Protect from heat and direct sunlight.
- Keep container tightly sealed.
- · 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: Usual hygienic measures for dental practice. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed.
- · 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. After use of gloves apply skin-cleaning agents and skin cosmetics.

Printing date 11.01.2016

Version number 1

Revision: 11.01.2016

# Trade name: SpeedCem Plus (Base)

(Contd. of page 3)

• *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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.* 

· Not suitable are gloves made of the following materials:

Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates.

· Eye protection: Safety glasses

SECTION 9: Physical and ch	nemical properties		
• 9.1 Information on basic physical of	• 9.1 Information on basic physical and chemical properties		
· General Information			
· Appearance:			
Form:	Pasty		
Colour:	According to product specification		
· Odour:	Characteristic		
· Odour threshold:	Not determined.		
· pH-value:	Not determined.		
· Change in condition			
Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	Undetermined.		
· Flash point:	Not applicable.		
· Self-igniting:	Product is not selfigniting.		
• Danger of explosion:	Product does not present an explosion hazard.		
· Explosion limits:			
Lower:	Not determined.		
Upper:	Not determined.		
· Vapour pressure:	Not determined.		
· Density:	Not determined.		
· Relative density	Not determined.		
· Vapour density	Not determined.		
· Evaporation rate	Not determined.		
$\cdot$ Solubility in / Miscibility with			
water:	Nearly insoluble.		
· Partition coefficient (n-octanol/way	ter): Not determined.		
· Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
• 9.2 Other information	No further relevant information available.		

### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

(Contd. on page 5)

Printing date 11.01.2016

Version number 1

Revision: 11.01.2016

## Trade name: SpeedCem Plus (Base)

(Contd. of page 4)

• **10.2 Chemical stability** Stable under normal handling and storage conditions. Photoreactive (Danger of polymerization).

• 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

Protect from exposure to the light.

Keep away from heat and direct sunlight.

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: None under normal conditions of storage and use.

#### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

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

· Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · Additional toxicological information: No further relevant information available.
- $\cdot \textit{Germ cell mutagenicity} Based on available data, the classification criteria are not met.$
- · Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot$  **Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot \textbf{STOT-repeated exposure } Based on available data, the classification criteria are not met.$
- 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.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

*Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.* (Contd. on page 6)

Printing date 11.01.2016

Version number 1

Revision: 11.01.2016

# Trade name: SpeedCem Plus (Base)

(Contd. of page 5)

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	on and a second s
· 14.1 UN-Number · ADR,RID,ADN, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR,RID,ADN, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR,RID,ADN, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR,RID,ADN, 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.	
· Transport/Additional information:	Product is not classified as a dangerous good for transpor (ADR, IMDG, IATA).
· UN "Model Regulation":	Void

## **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

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

· National regulations:

- · Other regulations, limitations and prohibitive regulations
- The product is a medical device according to the Directive 93/42/EEC.
- · 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.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 7)

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Printing date 11.01.2016

Version number 1

Revision: 11.01.2016

# Trade name: SpeedCem Plus (Base)

(Contd. of page 6) IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

Printing date 14.12.2017

Version number 2

Revision: 14.12.2017

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

· 1.1 Product identifier

• Trade name: SpeedCem Plus (Catalyst)

 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

Self-adhesive self-curing dental resin cement with light-curing option

 $\cdot$  1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Ivoclar Vivadent AG Bendererstrasse 2 FL-9494 Schaan PRINCIPALITY OF LIECHTENSTEIN

*Tel:* +423 235 35 35 *Fax:* +423 235 33 60

 Further information obtainable from: Regulatory Affairs sds@ivoclarvivadent.com
 1.4 Emergency telephone number: +423 / 235 33 13 (Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein)

#### **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

 $\cdot$  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.

STOT SE 3 H335 May cause respiratory irritation.

· 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



· Signal word Warning

Hazard-determining components of labelling: urethane dimethacrylate ytterbium trifluoride triethylene glycol dimethacrylate methacrylated phosphoric acid ester 1,10-decandiol dimethacrylate dibenzoyl peroxide
Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

(Contd. on page 2)

GB

Printing date 14.12.2017

Version number 2

Revision: 14.12.2017

# Trade name: SpeedCem Plus (Catalyst)

(Contd. of page 1)

· Precautionary statements

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

P302+P352 IF ON SKIN: Wash with plenty of water.

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

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

#### • 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 (CLP/GHS) usually if they are in the finished state and intended for the final user.

· 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 compone	ents:	
CAS: 13760-80-0	ytterbium trifluoride	25-50%
EINECS: 237-354-2	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 72869-86-4	urethane dimethacrylate	10-<25%
EINECS: 276-957-5	Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 109-16-0	triethylene glycol dimethacrylate	10-<25%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 85590-00-7	methacrylated phosphoric acid ester	2.5-<10%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 25852-47-5	polyethylene glycol dimethacrylate	0.1-<2.5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 6701-13-9	1,10-decandiol dimethacrylate	1-<2.5%
EINECS: 229-745-1	<i>Eye Irrit. 2, H319; Skin Sens. 1, H317</i>	- ]
CAS: 94-36-0	dibenzoyl peroxide	1-<2.5%
EINECS: 202-327-6	Org. Perox. B, H241; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	ion: For the wording of the listed hazard phrases refer to section 16.	•

#### **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.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Rinse with water.

If skin irritation continues, consult a doctor.

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

• After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

GB

Printing date 14.12.2017

#### Version number 2

Revision: 14.12.2017

## Trade name: SpeedCem Plus (Catalyst)

• **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*  (Contd. of page 2)

#### **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 Not required.

- 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

*Only adequately trained personnel should handle this product. For use in dentistry only.* 

- · 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 only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store in a cool place.

- Protect from exposure to the light.
- Protect from heat and direct sunlight.
- Keep container tightly sealed.
- 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.

(Contd. on page 4)

Printing date 14.12.2017

Version number 2

Revision: 14.12.2017

# Trade name: SpeedCem Plus (Catalyst)

(Contd. of page 3)

#### · 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- Usual hygienic measures for dental practice and dental laboratories.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Keep away from foodstuffs, beverages and feed.
- 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. After use of gloves apply skin-cleaning agents and skin cosmetics.* 

• 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Not suitable are gloves made of the following materials:
- Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates.
- Eye protection: Safety glasses

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

- •9.1 Information on basic physical and chemical properties
- · General Information • Appearance: Form: Pasty Colour: According to product specification Characteristic · Odour: · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Undetermined. Melting point/freezing point: Initial boiling point and boiling range: Undetermined. · Flash point: Not applicable. • Auto-ignition temperature: Product is not selfigniting. Product does not present an explosion hazard. • Explosive properties: • Explosion limits: Not determined. Lower: Not determined. Upper: · Vapour pressure: Not determined. (Contd. on page 5)

Printing date 14.12.2017

Version number 2

Revision: 14.12.2017

## Trade name: SpeedCem Plus (Catalyst)

		(Contd. of page 4)
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
Solubility in / Miscibility with water:	Nearly insoluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	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

Stable under normal handling and storage conditions.

- Photoreactive (Danger of polymerization).
- 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
- Protect from exposure to the light.

Keep away from heat and direct sunlight.

- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: None under normal conditions of storage and use.

#### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation
- Causes serious eye irritation.
- Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- Additional toxicological information: No further relevant information available.
- · 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
- May cause respiratory irritation.
- 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.

(Contd. on page 6)

Printing date 14.12.2017

Version number 2

Revision: 14.12.2017

# Trade name: SpeedCem Plus (Catalyst)

(Contd. of page 5)

- 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

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

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

SECTION 14: Transport informatio	n
· 14.1 UN-Number · ADR/RID/ADN, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/RID/ADN · ADN, IMDG, IATA	Void Void
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR/RID/ADN, 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.	
• Transport/Additional information:	Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).
· UN "Model Regulation":	Void

#### **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

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

(Contd. on page 7)

Printing date 14.12.2017

Version number 2

Revision: 14.12.2017

# Trade name: SpeedCem Plus (Catalyst)

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

(Contd. of page 6)

· National regulations:

• Other regulations, limitations and prohibitive regulations

The product is a medical device according to the Directive 93/42/EEC.

· 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

H241 Heating may cause a fire or explosion. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects. • Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Org. Perox. B: Organic peroxides - Type B 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 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

• \* Data compared to the previous version altered.

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