Printing date 12.12.2019

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Version number 2

Revision: 12.12.2019

Hazardous according to criteria of Australian Safety and Compensation Council.

## **1 Identification**

· Product identifier

- · Trade name: Variolink Esthetic DC (Catalyst)
- *Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.*
- · Application of the substance / the mixture Dual-curing resin-based dental luting material

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

Importer: Ivoclar Vivadent Pty. Ltd. 1- 5 Overseas Drive Noble Park North VIC 3174 Tel: + 61 3 9795 9599 / Fax: + 61 3 9795 9645

• Further information obtainable from: Regulatory Affairs sds@ivoclarvivadent.com

• Emergency telephone number: 131 126 (Poisons Information Centre - 24 hours / 7 days)

## 2 Hazard(s) Identification

# · Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

· Label elements

• *GHS label elements* The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



· Signal word Warning

 Hazard-determining components of labelling: urethane dimethacrylate
 1,10-decandiol dimethacrylate
 Hazard statements

*Causes skin irritation. Causes serious eye irritation.* 

(Contd. on page 2)

AU

Printing date 12.12.2019

Version number 2

Revision: 12.12.2019

## Trade name: Variolink Esthetic DC (Catalyst)

(Contd. of page 1)

May cause an allergic skin reaction. May cause respiratory irritation. · Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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. · Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. **3** Composition and Information on Ingredients · Chemical characterisation: Mixtures • **Description:** Mixture of substances listed below with nonhazardous additions. · Dangerous components: a . a 12560 00 0

CAS: 13760-80-0	ytterbium trifluoride	10-25%	
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335		
CAS: 72869-86-4	urethane dimethacrylate	2.5-10%	
	Eye Irrit. 2A, H319; Skin Sens. 1, H317		
CAS: 6701-13-9	1,10-decandiol dimethacrylate	2.5-10%	
	Eye Irrit. 2A, H319; Skin Sens. 1, H317		
CAS: 80-15-9	α,α -dimethylbenzyl hydroperoxide	<2.5%	
	Org. Perox. E, H242; Acute Tox. 3, H331; STOT RE 2, H373; Skin Corr. 1B,		
	H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Flam. Liq. 4, H227		
· Additional inform	ation. For the wording of the listed hazard phrases refer to section 16		

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

## **4 First Aid Measures**

#### · 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 eve contact: Rinse opened eve 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.

· Information for doctor:

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

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

(Contd. on page 3)

Printing date 12.12.2019

#### Version number 2

Revision: 12.12.2019

## Trade name: Variolink Esthetic DC (Catalyst)

(Contd. of page 2)

#### **5** Fire Fighting Measures

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

#### **6** Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- *Environmental precautions:* Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · 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.

## 7 Handling and Storage

- · Handling:
- · 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.
- · 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:
- Protect from exposure to the light. Protect from heat and direct sunlight.
- Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls and personal protection

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

· 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.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Usual hygienic measures for dental practice and dental laboratories. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Respiratory protection: Not required.

(Contd. on page 4)

AU

Printing date 12.12.2019

Version number 2

Revision: 12.12.2019

## Trade name: Variolink Esthetic DC (Catalyst)

(Contd. of page 3)

#### · 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

## 9 Physical and Chemical Properties

General Information		
Appearance:	D.	
Form:	Pasty	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
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 applicable.	
Density at 20 °C:	1.8705 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Nearly insoluble.	
Partition coefficient: n-octanol/water:	Not determined.	

Printing date 12.12.2019

Version number 2

Revision: 12.12.2019

## Trade name: Variolink Esthetic DC (Catalyst)

(Contd. of page 4)

· Viscosity: Dvnamic:

Kinematic:

• Other information

Not applicable. Not applicable. No further relevant information available.

#### **10 Stability and Reactivity**

- *Reactivity* No further relevant information available.
- *Chemical stability Stable under normal handling and storage conditions.*
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid

Protect from exposure to the light.

Keep away from heat and direct sunlight.

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

#### **11 Toxicological Information**

· Information on toxicological effects

• Acute toxicity

· LD/LC50 values relevant for classification:

#### CAS: 80-15-9 a,a -dimethylbenzyl hydroperoxide

 Oral
 LD50
 382 mg/kg (rat)

 Dermal
 LD50
 500 mg/kg (rat)

 Inhalative
 LC50/4 h
 220 mg/l (rat)

· Skin corrosion/irritation Irritant to skin and mucous membranes.

· Serious eye damage/irritation Irritating effect.

- Respiratory or skin sensitisation Sensitisation possible through skin contact.
- Additional toxicological information: No further relevant information available.

#### **12 Ecological Information**

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · *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.

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

(Contd. on page 6)

AU

Printing date 12.12.2019

Version number 2

Revision: 12.12.2019

## Trade name: Variolink Esthetic DC (Catalyst)

(Contd. of page 5)

· Other adverse effects No further relevant information available.

## **13 Disposal considerations**

# 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.

Transport information	
UN-Number ADG, ADN, IMDG, IATA	Void
UN proper shipping name ADG, ADN, IMDG, IATA	Void
Transport hazard class(es)	
ADG, ADN, IMDG, IATA Class	Void
Packing group ADG, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II oj and the IBC Code	<b>f Marpol</b> Not applicable.
Transport/Additional information:	Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).
UN "Model Regulation":	Void

## **15 Regulatory information**

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

· Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

• Hazard pictograms



(Contd. on page 7)

Printing date 12.12.2019

· Signal word Warning

Version number 2

Revision: 12.12.2019

## Trade name: Variolink Esthetic DC (Catalyst)

(Contd. of page 6)

• Hazard-determining components of labelling: urethane dimethacrylate 1,10-decandiol dimethacrylate • Hazard statements

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.

Precautionary statements
 Wear protective gloves/protective clothing/eye protection/face protection.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

• *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.

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

#### **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

H227 Combustible liquid. H242 Heating may cause a fire. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. · 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 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 4: Flammable liquids - Category 4 Org. Perox. E: Organic peroxides - Type E/F Acute Tox. 4: Acute toxicity - Category 4 Acute Tox. 3: Acute toxicity - Category 3 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

(Contd. on page 8)

<sup>-</sup> A

Printing date 12.12.2019

Version number 2

Revision: 12.12.2019

# Trade name: Variolink Esthetic DC (Catalyst)

Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 (Contd. of page 7)

AU