ivoclar vivadenl:

Safety Data Sheet in accordance with HSNO

Printing date 06.12.2019

Version number 9

Revision: 06.12.2019

1 Identification of the substance or mixture and of the supplier

· Product identifier

· Trade name: IPS Model Sealer

Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Auxiliary for manufacture of dental prothesis

 \cdot 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 Ltd 12 Omega St, Rosedale, Auckland New Zealand Tel: + 64 9 914 9999 / Fax: + 64 9 914 9990

• **Further information obtainable from:** Regulatory Affairs sds@ivoclarvivadent.com • **Emergency telephone number:** 0800 764 766 (National Poison Centre - 24 hours / 7 days)

2 Hazards identification

 \cdot Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

· Label elements

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

· Hazard pictograms



Signal word Danger
Hazard statements
Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Other hazards
Results of PBT and vPvB assessment

• **PBT:** Not applicable.

(Contd. on page 2)

Printing date 06.12.2019

Version number 9

Revision: 06.12.2019

Trade name: IPS Model Sealer

(Contd. of page 1)

· vPvB: Not applicable.

3 Composition/Information on ingredients

· Chemical characterisation: Mixtures

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

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

2 angere as compone		
CAS: 141-78-6	ethyl acetate	50-100%
EINECS: 205-500-4	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 9004-70-0	cellulose nitrate damped with 2-propanol	10-25%
	<i>Eye Irrit. 2A, H319; STOT SE 3, H336</i>	
. Additional information	ion. For the wording of the listed hagard 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; consult doctor in case of complaints.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- Generally the product does not irritate the skin.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, 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.

5 Fire fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

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

Do not flush with water or aqueous cleansing agents

(Contd. on page 3)

NZ

Printing date 06.12.2019

Version number 9

Revision: 06.12.2019

Trade name: IPS Model Sealer

(Contd. of page 2)

• **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** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · 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.
- Store receptacle in a well ventilated area.
- Specific end use(s) No further relevant information available.

8 Exposure controls/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:

CAS: 141-78-6 ethyl acetate

WES Long-term value: 720 mg/m³, 200 ppm

· 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.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

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. Filter A

· Protection of hands:



Protective gloves

(Contd. on page 4)

Printing date 06.12.2019

Version number 9

Revision: 06.12.2019

Trade name: IPS Model Sealer

(Contd. of page 3)

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

Butyl rubber, BR

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.

• Eye protection:



Tightly sealed goggles

Information on basic physical and cher	nical properties
General Information	
Appearance: Form:	Fluid
r orm: Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	e: 77 °C
Flash point:	-1 °C
Ignition temperature:	460 °C
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	<i>Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.</i>
Explosion limits:	
Lower:	2.1 Vol %
Upper:	11.5 Vol %
Vapour pressure at 20 °C:	97 hPa
Density at 20 °C:	0.989 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	

Printing date 06.12.2019

Version number 9

Revision: 06.12.2019

Trade name: IPS Model Sealer

	(Contd. of pa	ige 4
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	

No further relevant information available.

10 Stability and reactivity

· Other information

• *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 Reacts with strong oxidising agents.
- · Conditions to avoid No further relevant information available.
- · 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: 141-78-6 ethyl acetate

Oral LD50 5620 mg/kg (rat)

CAS: 141-78-6 ethyl acetate

 $Dermal \ LD50 > 18000 \ mg/kg \ (rabbit)$

· Skin corrosion/irritation No irritant effect.

· Serious eye damage/irritation Irritating effect.

- · Respiratory or skin sensitisation No sensitising effects known.
- Additional toxicological information: No further relevant information available.

12 Ecological information

• Aquatic tox	icity:	
CAS: 141-2	78-6 ethyl acetate	
LC50/96 h	212 mg/l (fish) (Min.)	
	328 mg/l (fish) (Median)	
	484 mg/l (fish) (Max.)	
CAS: 141-2	78-6 ethyl acetate	
LC50/48 h	154 mg/l (crustaceans) (Min.)	
	1600 mg/l (crustaceans) (Max.)	
	679 mg/l (crustaceans) (Median)	
· Behaviour · Bioaccumu	and degradability No further relevant information available. in environmental systems: lative potential No further relevant information available. soil No further relevant information available.	
		(Contd. on page

(Contd. on page 6)

Printing date 06.12.2019

Version number 9

Revision: 06.12.2019

Trade name: IPS Model Sealer

(Contd. of page 5)

• Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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

13 Disposal considerations

· 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.

14 Transport information · UN-Number · ADR/RID/ADN, IMDG, IATA 1173 · UN proper shipping name · ADR/RID/ADN 1173 ETHYL ACETATE · IMDG, IATA ETHYL ACETATE • Transport hazard class(es) · ADR/RID/ADN · Class 3 (F1) Flammable liquids. · Label 3 · IMDG, IATA · Class 3 Flammable liquids. · Label 3 · Packing group · ADR/RID/ADN, IMDG, IATA Π • Environmental hazards: · Marine pollutant: No Warning: Flammable liquids. · Special precautions for user · Danger code (Kemler): 33 (Contd. on page 7)

Printing date 06.12.2019

Version number 9

Revision: 06.12.2019

Trade name: IPS Model Sealer

	(Contd. of page
EMS Number:	F-E,S-E
Transport in bulk according to Annex and the IBC Code	II of Marpol Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	LQ4
Transport category	2
Tunnel restriction code	D/E
UN ''Model Regulation'':	UN 1173 ETHYL ACETATE, 3, II

15 Regulatory information

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

New Zealand Inventory of Chemicals		
All ingredients are listed.		
· HSNO Approval numbers		
CAS: 141-78-6 ethyl acetate	HSR001041	
CAS: 9004-70-0 cellulose nitrate damped with 2-propanol	HSR001492	
 GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). Hazard pictograms Water Statements Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed. Seveso category P5c FLAMMABLE LIQUIDS Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t		
• Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t • 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.

(Contd. on page 8)

NZ

Printing date 06.12.2019

Version number 9

Revision: 06.12.2019

Trade name: IPS Model Sealer

(Contd. of page 7)

· Relevant phrases H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. • 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. 2: Flammable liquids – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3