

Safety Data Sheet

Section 1: Identification of the material and the Supplier

Product identifier	IPS Model Sealer
Product use	Auxiliary for manufacture of dental prosthesis
Distributor information	
Company identification	Ivoclar Vivadent (NZ) Ltd
Address	12 Omega Street, Rosedale, Auckland, New Zealand
Telephone Number	0508 486 252
Emergencies within New Zealand	0800 764 766 (National Poison Control Centre)

Section 2: Hazards Identification

Product is classified as hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

NZ Group Standard & EPA Approval Code Dental Products (Flammable)
HSR002556



Flammable



Irritant



Chronic

Hazard Classification	Hazard Code	Hazard Statement
3.1B	H225	Highly flammable liquid and vapour
6.1E (Oral)	H303	May be harmful if swallowed
6.1E (Asp)	H333	May be harmful if inhaled
6.4A	H319	Causes serious eye irritation
6.9B	H373	May cause damage to organs through prolonged or repeated exposure

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: use CO ₂ , powder or water spray for extinction. Fight larger fires with water spray.

Storage Code	Storage Statement
P403 + P235	Store in a well-ventilated place. Keep cool.
Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations.

Section 3: Composition/Information on Ingredients

Chemical characterization Mixtures.

Description Mixture of substances listed below with non-hazardous additions.

Dangerous components:		
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%
	Flam. Liq. 1, H224; Eye Irrit. 2, H319; STOT SE 3, H336	

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

Section 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.

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.

Section 5: Fire Fighting Measures

Extinguishing media:

Suitable extinguishing agents CO₂, powder or water spray. Fight larger fires with water spray.

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.

Section 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.

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

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 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.

Section 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

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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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. 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.

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.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

General Information:

Appearance:

Form	Fluid
Colour	Colourless
Odour	Characteristic
Odour threshold	Not determined
pH-value	Not determined
Change in condition:	
Melting point/Melting range	Undetermined
Boiling point/Boiling range	77 °C
Flash point	-1 °C
Ignition temperature	460 °C
Self-igniting	Product is not self igniting
Danger of explosion	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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 water	Not miscible or difficult to mix
Partition coefficient (n-octanol/water)	Not determined
Viscosity:	
Dynamic	Not determined
Kinematic	Not determined
Other information	No further relevant information available

Section 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	Reacts with strong oxidizing 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.

Section 11: Toxicological Information

Information on toxicological effects:

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

LD/LC50 values relevant for classification

CAS: 141-78-6 ethyl acetate

Oral	LD50	5620 mg/kg (rabbit)
Inhalative	LC50/4 h	1600 mg/l (rat)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye irritation.

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

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 drowsiness or dizziness.

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

Toxicity:

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bio accumulative 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.

Other adverse effects: No further relevant information available.

Section 13: Disposal Considerations

Waste treatment methods:

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

European waste catalogue

20 01 13* solvents

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Section 14: Transport Information

UN Number: 1173
 Proper Shipping Name: Ethyl Acetate
 DG class and subsidiary risk: Class 3 Highly flammable
 Packing group: II



Flammable

Hazchem code	3(Y)E
Dangerous Goods Segregation	This product is classified as Dangerous Goods Class 3, packing group II. Please consult NZS 5433 Safe Transport of Dangerous Goods for more information.

Section 15: Regulatory Information

NZ Group Standard & EPA Approval Code Dental Products (Flammable)
HSR002556

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Any quantity in a situation where vapour - air mixtures could ignite *Registered dentists are deemed approved handlers when using as finished formed medicines
Location Certificate	100 L (>5L), 250 L (<5L); 50 L open
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantity	250 L (liquid) / kg (solid)
Emergency Response Plan Trigger Quantities	1,000 L

Section 16: Other Information

Relevant phrases:	H224	Extremely flammable liquid and vapour.
	H225	Highly flammable liquid and vapour.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.

This document has been compiled by Ivoclar Vivadent Ltd on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Ivoclar Vivadent (NZ) Ltd by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Ivoclar Vivadent (NZ) Ltd has taken all care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Ivoclar Vivadent (NZ) Ltd accepts no liability or any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS. The information herein is given in good faith, but no warranty, express or implied is made.

Issue date: 16 November 2015

Date Ivoclar Vivadent Ltd prepared: 13 May 2016

Review date: 16 November 2020