

Safety Data Sheet

Section 1: Identification of the material and the Supplier

Product identifier	Virtual Tray Adhesive
Product use	Custom tray material
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
6.1D (Oral)	H302	Harmful if swallowed
6.1E (Dermal)	H313	May be harmful in contact with skin
6.1E (Asp)	H305	May be harmful if swallowed and enters airways
6.3A	H315	Causes skin irritation
6.4A	H319	Causes serious eye irritation.
6.8B	H361	Suspected of damaging fertility or the unborn child
6.9B	H373	May cause damage to organs through prolonged or repeated exposure
9.1D	H401n/H402o/H413p	Toxic to aquatic life/Harmful to aquatic life/May cause long lasting harmful effects to aquatic life
9.3C	H433	Harmful to terrestrial vertebrates
Prevention Code	Prevention Statement	
P102	Keep out of reach of children.	
P103	Read label before use.	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
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.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

P281	Use personal protective equipment as required.
Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment see Section 4. First Aid Measures.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before re-use.
P370 + P378	In case of fire: Use CO ₂ , powder or water spray for extinction. Fight larger fires with water spray or alcohol resistant foam.
Storage Code	Storage Statement
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
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: 1330-20-7 EINECS: 215-535-7	xylene Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	25-50%
CAS: 108-88-3 EINECS: 203-625-9	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	10-<25%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	1-<2.5%

Additional information	For the wording of the listed risk phrases refer to section 16.
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Section 4: First Aid Measures

Description of first aid measures:	
General information	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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	Seek medical treatment.
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	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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	Mouth 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). Dispose contaminated material as waste according to item 13. 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 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.

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

1330-20-7 xylene

WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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108-88-3 toluene



WEL	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 191 mg/m ³ , 50 ppm Sk
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67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
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Ingredients with biological limit values**1330-20-7 xylene**

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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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. Avoid contact with 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 AX.
Protection of hands	 <p>Protective gloves.</p> <p>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.</p>
Material of gloves	Butyl rubber, BR, Fluocarbon rubber (Viton), PVA 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.
Eye protection	 <p>Goggles.</p> <p>Tightly sealed goggles.</p>

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

General Information:

Appearance:

Form	Fluid
Colour	Blue
Odour	Characteristic
Odour threshold	Not determined
pH-value	Not determined

Change in condition:

Melting point/Melting range	Undetermined
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Boiling point/Boiling range	Undetermined
Flash point	< 21 °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	Not determined
Upper	Not determined
Vapour pressure	Not determined
Density at 20 °C	0.9 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
Solvent content:	
Organic solvents	55.5%
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	No dangerous reactions known.
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:

LD/LC50 values relevant for classification		
1330-20-7 xylene		
Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
108-88-3 toluene		
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

Primary irritant effect:

On the skin	Irritant to skin and mucous membranes.
On the eye	No irritating effect.

Sensitization	No sensitizing effects known.
Additional toxicological information:	No further relevant information available.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	Repr. 2

Section 12: Ecological Information

Toxicity:	
Acquatic 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 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product 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.
Uncleaned packaging:	
Recommendation	Disposal must be made according to official regulations.

Section 14: Transport Information

UN Number	1133
DG Proper shipping name	Adhesives
DG Class and subsidiary risk	Class 3 Flammable liquids
Packing group	II
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.



Flammable

Section 15: Regulatory Information

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

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	>250 L if container >5 L >500 L if container <5 L
Location Certificate	100 L (>5 L), 250 L (<5 L); 50 L open
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	250 L (liquid) / kg (solid)
Emergency Response Plan Trigger Quantities	1,000 L (liquid) / kg (solid)

Section 16: Other Information

Relevant R-phrases:	H225	Highly flammable liquid and vapour.
	H226	Flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H312	Harmful in contact with skin.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H336	May cause drowsiness or dizziness.
	H361d	Suspected of damaging the unborn child.
	H373	May cause damage to organs through prolonged or repeated exposure.

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: 20 January 2015

Date Ivoclar Vivadent Ltd prepared: 12 May 2016

Review date: 20 January 2020