

Safety Data Sheet

Section 1: Identification of the material and the Supplier

Product identifier	Helioseal F
Product use	Light-curing fissure sealant with fluoride release
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 (subsidiary) HSR002558
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Irritant

Hazard Classification	Hazard Code	Hazard Statement
6.3A	H315	Causes skin irritation
6.4A	H319	Causes serious eye irritation
6.5B	H317	May cause an allergic skin reaction
Prevention Code	Prevention Statement	
P103	Read label before use.	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P264	Wash hands thoroughly after handling.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
Response Code	Response Statement	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P321	Specific treatment see Section 4. First Aid Measures.	
P332 + P313	If skin irritation occurs: Get medical advice/attention.	
P333 + P313	If skin irritation or rash 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.	
P363	Wash contaminated clothing before reuse.	
Storage Code	Storage Statement	
-	No storage statements.	
Disposal Code	Disposal Statement	
P501	Dispose of according to Local Regulations.	

Section 3: Composition/Information on Ingredients

Chemical characterization	Mixtures
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Description	Mixture of substances listed below with below with non-hazardous additions.		
Dangerous components:			
CAS: 72869-86-4 EINECS: 276-957-5	urethane dimethacrylate	Xi R36; R52/53	Xi R43 10-25%
CAS: 109-16-0	triethyleneglycol dimethacrylate	Xi R36/37/38	Xi R43 10-25%
CAS: 1565-94-2	Bis-GMA	Xi R36/38	10-25%
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 and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
After skin contact	Immediately rinse with water.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing	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.

Section 5: Fire Fighting Measures

Extinguishing media:	
Suitable extinguishing agents	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture	No further relevant information available.
Advice for firefighters:	
Protective equipment	No special measures required.

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

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.

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	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. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Do not inhale gases/fumes/aerosols.
Respiratory protection	Not required.
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:	The selection of the suitable gloves does not only depend on the material, but also the 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	Safety glasses.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:	
General Information:	
Appearance:	
Form	Fluid
Colour	White
Odour	Characteristic
Odour threshold	Not determined
pH-value	Not determined
Change in condition:	

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 at 20 °C	1.41 g/cm ³
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water	Nearly insoluble
Segregation 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. Photoreactive (Danger of polymerization).
Thermal decomposition	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.

Section 11: Toxicological Information

Information on toxicological effects:	
Acute toxicity:	
Primary irritant effect:	
On the skin	Irritant to skin and mucous membranes.
On the eye	Irritating effect.
Sensitization	Sensitization possible through skin contact.
Additional toxicological information:	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant.

Section 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.
Other adverse effects	No further relevant information available.

Section 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.

Section 14: Transport Information

This product is not a Dangerous Good for Road and Rail transport in New Zealand according to NZS 5433 Safe Transport of Dangerous Goods.

Section 15: Regulatory Information

NZ Group Standard & Dental products (subsidiary)
EPA Approval Code HSR002558

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantities
Approved Handler	Not applicable
Location Certificate	Not applicable
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	Not applicable
Emergency Response Plan Trigger Quantities	1,000 L (liquid) / kg (solid)

Section 16: Other Information

Relevant R-phrases: R36 Irritating to eyes.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R36/38 Irritating to eyes and skin.
 R43 May cause sensitisation by skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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