

Safety Data Sheet

Section 1: Identification of the material and the Supplier

Product identifier	IPS Emax Press Invex Liquid
Product use	Discharging agent
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 Degree of Hazard) Regulations 2001

NZ Group Standard & EPA Approval Code Dental Products (Toxic [6.7])
HSR002560



Toxic



Irritant



Chronic



Corrosive

Hazard Classification	Hazard Code	Hazard Statement
6.1B (Oral)	H300	Fatal if swallowed
6.1C (Dermal)	H311	Toxic in contact with skin
6.3A	H315	Causes skin irritation
6.7A	H350	May cause cancer
6.9B	H371	May cause damage to organs
8.1A	H290	May be corrosive to metals
8.3A	H318	Causes serious eye damage
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.	
P234	Keep only in original container.	
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.	
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.	
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.	
P308 + P313	IF exposed or concerned: Get medical advice/attention.	
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.	
P310	Immediately call a POISON CENTER or doctor/physician.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	

P321	Specific treatment see section 4. First Aid Measures.
P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P361	Remove/Take off immediately all contaminated clothing.
P362	Take off contaminated clothing and wash before re-use.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
Storage Code	Storage Statement
P405	Store locked up.
P406	Store in corrosive resistant/container with a resistant inner liner.
Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations.

Section 3: Composition/Information on Ingredients

Chemical characterization	Mixtures.
Description	Acids in aqueous solution.

Dangerous components:

CAS: 7664-93-9 EINECS: 231-639-5	sulphuric acid	C R35	<2.5%
CAS: 7664-39-3 EINECS: 231-634-8	hydrofluoric acid	T+ R26/27/28; C R35	0.1-<1%

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

Section 4: First Aid Measures

Description of first aid measures:	
General information	Immediately remove any clothing soiled by the product.
After inhalation	Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation.
After skin contact	Immediately wash with water and soap and rinse thoroughly. Rub in Ca-gluconate solution or Ca-gluconate gel immediately. Seek medical treatment.
After eye contact	Rinse opened eye for several minutes under running water. Seek immediate medical advice.
After swallowing	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	Antidote: Ca-gluconate solution/Ca-gluconate gel.

Section 5: Fire Fighting Measures

Extinguishing media:	
Suitable extinguishing agents	The product is not flammable. Use fire extinguishing methods suitable to surrounding conditions.
Special hazards arising from the substance or mixture	During heating or in case of fire poisonous gases are produced.
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	Dilute with plenty of water.


Methods and material for containment and cleaning up	Use neutralizing agent. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. 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

Precautions for safe handling	Only adequately trained personnel should handle this product. For use in dentistry only. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
Information about fire and explosion protection	Keep respiratory protective device available.
Conditions for safe storage, including any incompatibilities:	
Storage:	
Requirements to be met by storerooms and receptacles	Store only in the original receptacle. Attacks materials containing glass and silicate.
Information about storage in one common storage facility	Store away from flammable substances.
Further information about storage conditions	Keep container tightly sealed. Protect from heat and direct sunlight.
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	7664-93-9 sulphuric acid WEL () Long-term value: 0.05* mg/m ³ *mist: defined as fraction 7664-39-3 hydrofluoric acid WEL () Short-term value: 2.5 mg/m ³ , 3ppm Long-term value: 1.5 mg/m ³ 1.8ppm
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. Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing. Store protective clothing separately. Avoid contact with the eyes and skin. Do not inhale gases/fumes/aerosols.
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.
Recommended filter device for short term use	Combination filter E-P2.
Protection of hands	 Protective gloves After use of gloves apply skin-cleaning agents and skin cosmetics.
Material of gloves:	Butyl rubber, BR. Fluorocarbon rubber (Viton). Chloroprene rubber, CR. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

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>Tightly sealed goggles.</p>
Body protection	Protective work clothing.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

General Information:

Appearance:

Form	Fluid
Colour	Colourless
Odour	Odourless
Odour threshold	Not determined
pH-value at 20 °C	2.2 (ISO 787)
Change in condition:	
Melting point/Melting range	Undetermined
Boiling point/Boiling range	~100 °C
Flash point	Undetermined
Flammability (solid, gaseous)	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	~1.008 g/cm ³
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water	Fully miscible
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: Ammonia, Sulphuric acid, Alkali (lyes), organic substances, metals forming hydrogen.
Conditions to avoid	Keep away from heat and direct sunlight.
Incompatible materials	Attacks materials containing glass and silicate.
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 No irritant effect.

On the eye Irritating effect.

Sensitization No sensitizing effects known.

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: Harmful, Irritant.

Section 12: Ecological Information

Toxicity:

Aquatic toxicity No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes Generally not hazardous for water.

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 Use neutralizing agent. Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

European waste catalogue

18 01 06*	chemicals consisting of or containing dangerous substances
20 01 14*	acids

Uncleaned packaging:

Recommendation Disposal must be made according to official regulations.

Section 14: Transport Information

UN Number	1790
Proper Shipping Name	Corrosive liquid, Toxic, NOS
DG class and subsidiary risk	Class 8 Corrosive substances
Packing group	III



Hazchem code	2XE
Dangerous Goods Segregation	This product is classified as Dangerous Goods Class 8, packing group III. Please consult NZS 5433 Safe Transport of Dangerous Goods for more information.

Section 15: Regulatory Information

NZ Group Standard & EPA Approval Code Dental Products (Toxic [6.7])
HSR002560

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Any * Registered dentists are deemed approved handlers when using as finished formed medicines
Location Certificate	Not applicable
Tracking Trigger Quantity	Any
Signage Trigger Quantity	250 L (liquid) / kg (solid)
Emergency Response Plan Trigger Quantities	100 L (liquid) / kg (solid)

Section 16: Other Information

Relevant R-phrases: R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
R35 Causes severe burns.

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.

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