



Biodental Technologies Pty Ltd

Material Safety Data Sheet

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Etching Gel
Other Names / Product Code(s):	Gel Etch/ EAG-20B, EPB-3S, EPB-50S, KEP-3x3S, KEP-6x3S, KES-502x3, KSB-6x3S, KSJ-506x3
Recommended Use:	Etching teeth before dental bonding.
Supplier Name:	Biodental Technologies Pty Ltd
Supplier Address:	1/8 Binalong Way, Macksville, NSW 2447, Australia
Supplier Telephone:	+61 2 9482 1888
Supplier Fax:	+61 2 9482 1875
Supplier email:	info@biodentaltech.com
Emergency telephone:	+61 2 9482 1888 from 09:00 – 17:00, Mon-Fri. Eastern Australia time zone.

SECTION 2 HAZARDS IDENTIFICATION

Hazard Classification:	C: Corrosive.
Risk Phrase(s):	R34: Causes burns
Safety Phrase(s):	S2: Keep out of the reach of children S26: In case of contact with eyes, rinse immediately with plenty of water and immediately seek medical advice. S45: In case of accident or if you feel unwell, seek immediate medical advice. S37/39: Wear suitable gloves and eye/face protection.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	Name	CAS	Proportion
	Water	732-18-5	55-65%
	Phosphoric acid	7664-38-2	35 - 45%
	Amorphous silica	112945-52-5	5 - 10%

SECTION 4	FIRST AID MEASURES
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Eye contact:	Immediately flush eyes with large amounts of flowing water and continue for at least 15 minutes. Seek urgent medical attention.
Skin contact:	Remove all contaminated clothing. Wash skin gently but thoroughly with large amounts of flowing water. Wash contaminated clothing before re-use.
Ingestion:	Seek immediate medical attention and show this safety data sheet. Do NOT induce vomiting. Immediately wash mouth out with water and give patient 2 glasses of water.
Inhalation:	Remove to fresh air. Seek medical attention if respiratory irritation is experienced.
First Aid facilities:	Normal washroom facilities plus eye-wash.
Advice to Doctor:	Treat symptomatically.

SECTION 5	FIRE FIGHTING MEASURES
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Extinguishing Media:	Material is not flammable or combustible. Use a fire extinguisher appropriate for the surrounding environment.
Hazards from combustion products:	Non-flammable and non-combustible but may release carbon monoxide and carbon dioxide gases during combustion.
Special protective precautions and equipment for fire fighters:	Fire-exposed containers may rupture or explode. Wear self-contained breathing apparatus and full protective clothing to minimize skin exposure.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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Emergency procedures:	Wear full protective clothing to minimize skin exposure. Increase ventilation. Clean the area with large amounts of water.
Methods & materials for containment & clean up:	Small spillages can be wiped up with absorbent paper. Ensure that the floor is dry to prevent slipping.

SECTION 7	HANDLING AND STORAGE
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Precautions for safe handling:	Only adequately trained personnel should use this product. Avoid eye and skin contact. Follow the usual hygiene practices for a dental surgery. Keep out of the reach of children.
Conditions for safe storage:	Keep containers closed when not in use. Store at 2 - 28°C. Cool storage 2 - 8°C is indicated for larger stock.

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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National Exposure Standards:	TWA: 1mg m ⁻³ STEL: 3 mg m ⁻³
Biological limit values:	No Biological limits have been allocated for this material.
Engineering controls:	Use in a well ventilated area.
Personal protective equipment:	<p>Respiratory: Under normal conditions of use airborne exposures are not expected to be significant to require respiratory protection. Use in a well ventilated area.</p> <p><u>Eyes:</u> Avoid eye contact. Chemical safety glasses or a face shield is recommended for eye protection. The final choice of protective eyewear will vary according to individual circumstances.</p> <p><u>Hands:</u> Avoid skin contact. Impervious gloves (for example, nitrile rubber) are recommended.</p>

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	Blue liquid gel.
Odour:	Very slight characteristic odour
pH:	< 1
Vapour pressure:	Not available
Vapour density:	Not available
Boiling point/range:	Approximately 100° C
Freezing/melting point:	Not available
Solubility:	Soluble in water
Specific gravity or density:	1.2 - 1.3
Flash point:	Not relevant
Upper & lower flammable limits in air:	Not relevant
Ignition temperature:	Not relevant

SECTION 10	STABILITY AND REACTIVITY
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Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	High temperatures.
Incompatible materials:	Strong alkalis
Hazardous decomposition products:	Not relevant under normal conditions of use.
Hazardous reactions:	Not relevant under normal conditions of use.

SECTION 11	TOXICOLOGICAL INFORMATION
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Health effects from likely routes of exposure:	<p><u>Eye contact:</u> Corrosive. Eye burns. Symptoms may include loudy appearance of the cornea, chemical burns, sever pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.</p> <p><u>Eyes:</u> May cause severe eye irritation.</p> <p><u>Skin:</u> Due to the low pH of this material it is assumed that exposure will cause skin burns.</p> <p><u>Ingestion:</u> May cause burns to the mouth & throat. Gastrointestinal corrosion may occur. Symptoms may include sever, mouth, throat and abdominal pain, nausea, vomiting and diarrhoea, blood in the faeces or vomit may also be seen.</p> <p><u>Toxicology:</u> The oral LD50 for rats is 4135mg kg⁻¹</p>
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SECTION 12	ECOLOGICAL INFORMATION
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Ecotoxicity:	No data are available for this material.
Persistence and degradability:	No data are available for this material.
Mobility:	No data are available for this material.

SECTION 13	DISPOSAL CONSIDERATIONS
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Disposal methods and containers:	There are no special requirements except that waste should be disposed of in accordance with Federal, EPA, State and local regulations.
Special precautions for landfill or incineration:	Not relevant.

SECTION 14	TRANSPORT INFORMATION
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UN Number:	1085
UN Proper shipping name:	Phosphoric acid, solution.
Class and subsidiary risk:	None allocated
Packing Group:	III
Special precautions for user:	None allocated
Hazchem code:	2R. Dangerous Goods in excepted quantities (Class 8, UN 1805)

SECTION 15	REGULATORY INFORMATION
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Regulatory status:	The product is a medical device under Australian regulations and is a medical device according to the EC-directive 94/43/EEC.
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SECTION 16	OTHER INFORMATION
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Date of preparation or last revision:	v01 August 2008 v02August 2013.
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END OF MSDS