



1. Substance / Preparation and Company name

Product Names: AlloyBond

Recommended use: For bonding of amalgam to tooth surfaces.

Manufacturer / Supplier

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2. Composition / Information on ingredients

<u>Composition:</u>	<u>CAS No.</u>	<u>Wt. %</u>
Alloybond Base		
Acrylic monomer	-	99.0
Balance ingredient (non-hazardous)		1.0
Alloybond Catalyst		
Acrylic monomer	-	98.0
Balance ingredient (non-hazardous)		2.0
Alloybond Primer		
Acetone	67-64-1	54.0
Acrylic monomer	-	44.0
Balance ingredient (non-hazardous)		2.0



3. Hazard Identification

Product may be irritating to skin, eye and mucous membrane. Ingestion of un-polymerised material may cause gastric irritation. Anyone with known resin allergies must not use this product without consulting a specialist. AlloyBond Primer contains acetone and should not be kept away from sources of ignition.

Risk phrases –	43 36/38	May cause sensitisation by skin contact Irritating to eyes and skin
Safety phrases –	2: 3/15/16: 26/28: 36/37/39	Keep out of reach of children. Keep in a cool place, away from heat and sources of ignition. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with soap and water. Wear suitable protective clothing, gloves and eye/face protection.

4. First Aid Measures

Eye (contact):	Flush opened eye with running water for at least 5 minutes. Seek medical attention if symptoms persist.
Skin (contact):	Remove contaminated clothing. Wash skin with soap and water. In case of allergic reaction, seek medical attention.
Ingestion:	Seek medical attention.

5. Fire Fighting Measures

Suitable extinguishing media:	Sand, chemical foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards:	Heat can cause polymerization with rapid release of energy which may melt the container.
Special protective equipment:	No special measures required for small quantity. For large quantity, wear approved respirator and protective gear. Use water spray to cool container.

6. Accidental Release Measures

Personal precautions:	Not required.
Environmental precautions:	Prevent any spillage from entering waterways, drains or sewage system.
Methods for cleaning up:	Dyke and absorb with inert material (saw dust, sand, diatomaceous earth) and transfer to containers for disposal.



7. Handling and storage

Handling:	Follow instruction for use. The product should be supplied to or handled by dental professionals.
Storage:	Store in a cool place at temperatures between 10°C and 25°C (50° – 77°F) away from direct light.

8. Exposure controls and personal protection

Respiratory protection:	Not required under normal conditions of use.
Hand protection:	Rubber, latex or PVC gloves.
Eye protection:	Recommended.
General safety and hygiene measures:	Follow good housekeeping practices and good industrial hygiene in handling this material. Remove any naked lights or strong heat sources.

9. Physical and chemical properties

Appearance:	Clear, pale yellow low/ slightly viscous liquid.
Odour:	Ester like.
Boiling point:	Gels before boiling.
Melting point:	Not established.
Specific gravity:	0.8 - 1.15
Flash point:	- 20°C (Alloybond Primer)
Flammable:	Applicable to Alloybond Primer (contains acetone), approximately 3 - 13% in air. Not established for Alloybond Base and Alloybond Catalyst.
Autoflammability:	Does not self ignite.
Explosive properties:	Does not present an explosion hazard.
Oxidizing properties:	Not established.
Vapour pressure (@ 20°C):	Not established.
Relative density:	Not established.
Solubility:	Insoluble in water (Alloybond Base and Alloybond Catalyst). Miscible in water (Alloybond Primer).



10. Stability and Reactivity

Stability:	Stable under normal conditions.
Conditions to avoid:	Avoid heat, ignition sources, aging, contamination and intense visible light.
Materials to avoid:	Free radical formers, e.g. peroxides, reducing substances and / or heavy metals ions. Reacts violently with bromoform and chloroform in the presence of alkalis or in contact with alkaline surfaces. Decomposes violently in contact with nitric / sulfuric acid mixtures.
Hazardous decomposition products:	None under normal conditions; oxides of carbon when burned.
Hazardous reactivity (Polymerization):	Heat and intense light can cause polymerization. Spontaneous polymerization may occur in the presence of radical formers. May polymerize under these conditions with heat evolution. May ignite in the presence of sparks or naked flame.

11. Toxicological information

Acute

Skin:	May be irritating to skin, eye and mucous membrane. In isolated cases contact allergies have been reported.
Inhalation:	No side effects are expected.
Ingestion:	Ingestion of uncured product is slightly toxic. May cause gastric irritation.

Chronic

No chronic effects have been reported.

12. Ecological information

Self assessment:	Slightly hazardous for water. Do not allow large quantities to reach sewage system and waterways.
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13. Disposal considerations

Dispose of in accordance with local official regulations.



14. Transport information

Alloybond Primer, aqueous solution. Proper shipping name Acetone UN1993 Packing Group II Class 3.

If packed as Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met:

Chemical Kit UN3316 - Class 9.

Alloybond Base and Alloybond Catalyst are not classified as Dangerous Goods for air, sea, rail or road transport.

15. Regulatory information

This product is regulated by:

TGA
Medical Devices Directive 93/42/EEC
FDA
National regulations.

16. Other information

The information provided herein is given in good faith, but no warranty expressed or implied is made.

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Department issuing MSDS:	Research and Development
Contact:	Operations Director
