

EU Safety Data Sheet

AdheSE Bond



Date of issue / Reference	26.10.2010	liprt		
Replaces version of	27.09.2007	lise / v3		
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Company Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Fürstentum Liechtenstein

1 Commercial product name and supplier

1.1 Commercial product name / Designation **AdheSE Bond**

1.2 Application / Use Bonding agent

1.3 Producer Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Fürstentum Liechtenstein
msds@ivoclarvivadent.com

Supplier

1.4 TOX emergency number
Official Emergency-Call: +423 / 235 33 13
Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein

2 **Hazards identification** May cause sensitisation by skin contact. Irritating to eyes and skin.

3 Composition

3.1 Chemical characterization Mixture of dimethacrylates, hydroxyethyl methacrylate (HEMA), SiO₂, initiators and stabilizers

3.2 Hazardous components

CAS No. 868-77-9 < 25 % HEMA
Xi: Irritant. R43: May cause sensitisation by skin contact. R36/38: Irritating to eyes and skin.

< 75 % Dimethacrylates (CAS No. 1565-94-2 and 1830-78-0)
Xi: Irritant. R43: May cause sensitisation by skin contact. R36/38: Irritating to eyes and skin.

3.3 Further information None.

4 First aid measures

4.1 Eye contact Flush eyes with plenty of water (10-15 min.). Call a physician.

4.2 Skin contact Wash thoroughly with soap and water.

4.3 Ingestion After ingestion call a physician immediately and show this safety data sheet. Give large amounts of water.

4.4 Inhalation Take into fresh air.

4.5 Further information Remove contaminated clothing.

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5 Fire-fighting measures

- 5.1 Suitable extinguishing media No specific requirements.
- 5.2 Extinguishing media to avoid None.
- 5.3 Further information Cool containers in the vicinity of the blaze using a water spray.

6 Accidental release measures

Clean up with absorbent material.
Prevent skin and eye contact.
Clean area with large amounts of water.

7 Handling and storage

- 7.1 Handling Only adequately trained personnel should handle this product.
- 7.2 Industrial hygiene Practice care and caution to avoid skin and eye contact.
Usual hygienic measures for dental practice.
Keep out of reach of children.
- 7.3 Storage Store at 2-28 °C / 36-82 °F
- 7.4 Place of storage Do not store in open sunshine.
- 7.5 Fire- and explosion-protection Keep away from heat source.

8 Exposure controls / Personal protection

- 8.1 Exposure controls Good general ventilation should be sufficient.
- 8.2 Exposure limit values None established.
- 8.3 Occupational exposure controls
- 8.3.1 Respiratory protection Respiratory Protection.
- 8.3.2 Hand protection Gloves
Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates.
Check penetration time for the specific gloves used with the glove manufacturer.
- 8.3.3 Eye protection Eye wash fountain should be located in immediate work area.
Safety goggles or face-shield.
- 8.3.4 Other None.
- 8.4 Environmental exposure controls
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9 Physical and chemical properties

9.1 Appearance	liquid	
9.2 Colour	yellowish	
9.3 Odour	characteristic	
9.4 Change of physical state		Test method:
	not applicable	
9.5 Density		
	Not known.	
9.6 Vapour pressure		
	not applicable	
9.7 Viscosity		
	not known	
9.8 Solubility		
Solubility in water	partially miscible	
9.9 pH		
	neutral	
9.10 Flash point	> 150 °C	
9.11 Ignition temperature		
	Not applicable.	
9.12 Explosion limits		
	Lower:	
	Upper:	
	not applicable	
9.13 Further information		
Part. coeff. n-octanol/water		
Evaporat. rate		
	None.	

10 Stability and reactivity

10.1 Thermal decomposition	None, if used in accordance to instructions.
10.2 Hazardous decomposition products	None under normal conditions of storage and use.
10.3 Conditions / materials to avoid	Avoid excessive heat and direct sunlight.
10.4 Further information	Avoid exposure to light.

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11 Toxicological information

- 11.1 Acute toxicity Mutagenicity: negative (Ames-Test, Maus Micronucleus- and Maus Lymphoma-Test)
Prevent skin and eye contact.
Oral LD50 for rats: > 5'000 mg/kg
- 11.2 Subacute / Chronic toxicity Uncured material: prolonged or frequently repeated skin contact may cause allergic skin reactions.
- 11.3 Further information Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates.

12 Ecological information

- 12.1 Ecotoxicity No data available.
- 12.2 Mobility No data available.
- 12.3 Persistence and degradability No data available.
- 12.4 Bioaccumulative potential No data available.
- 12.5 Further information The product must not enter effluent, ground water, surface water or the soil.
German "Wassergefahrdungs Klasse (WGK)": 1

13 Disposal considerations

- Take to a special waste incineration plant, in line with local regulations.
- 13.1 EU waste key 18 01 06

14 Transport information

- 14.1 Transport at land
- | | | | |
|----------------------|-----|---------------|-----|
| ADR | --- | RID | --- |
| UN Number | --- | Kemler Number | --- |
| Packing Group | --- | | |
| Proper shipping name | --- | | |

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14.2	Transport at sea	ADNR	---	IMDG	---
		UN Number	---		
		EMS	---	MFAG	---
		Packing Group			
		Proper shipping name	---		
		Marine pollutant			
14.3	Air transport	ICAO / IATA-DGR	---		
		UN Number	---		
		Proper shipping name	---		
		Subsidiary Risk	---		
		Labels	---		
		Packing Group	---		
	Passenger airplane	Packing Instructions	---		
		max.	---		
	Cargo Airplane	Packing Instructions	---		
		max.	---		
14.4	Further information	Product is not classified as a dangerous good for transport.			


15 Regulatory information

The product is a medical device according to the EC-directive 93/42/EEC.
 This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.

15.1 UN number ---

15.2 National regulations

15.3 EINECS/ELINCS number ---

15.4 Hazard symbols
Xi


15.5 Hazard designation
 Xi: Irritant. Contains HEMA, Dimethacrylates (CAS No. 1565-94-2 and 1830-78-0).

15.6 Risk phrases
R: 43-36/38
 43 May cause sensitisation by skin contact.
 36/38 Irritating to eyes and skin.

15.7 Safety phrases
S: 2-26-28-24/25-37/39
 2 Keep out of the reach of children.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

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	28	After contact with skin, wash immediately with plenty of water and soap.
	24/25	Avoid contact with skin and eyes.
	37/39	Wear suitable gloves and eye/face protection.
15.8 AGW value	---	ml/m ³ (ppm)
15.9 BVD classification (CH)	---	
15.10 VbF (D)	---	
15.11 Further information	None.	

16 Other information No other information.

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.

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