

ParaBond Adhesive A

Revision date: 06.05.2015

Print date: 07.05.2015

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

ParaBond Adhesive A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

for dental use only

1.3. Details of the supplier of the safety data sheet

Company name:	Coltène/Whaledent AG
Street:	Feldwiesenstrasse 20
Place:	CH-9450 Altstätten
Telephone:	+41 (71) 75 75 300
Telefax:	+41 (71) 75 75 301
e-mail:	info.ch@coltene.com
Internet:	www.coltene.com
Responsible Department:	Regulatory Affairs msds@coltene.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F - Highly flammable, Xi - Irritant R phrases: Highly flammable. Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories: Flammable liquid: Flam. Liq. 2 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory/skin sensitization: Skin Sens. 1 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Hazardous components which must be listed on the label

2-hydroxyethyl methacrylate

dibenzoyl peroxide; benzoyl peroxide

Signal word:	Danger
Pictograms:	GHS02-GHS07



ParaBond Adhesive A Print date: 07.05.2015 Revision date: 06.05.2015 Page 2 of 7 Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. **Precautionary statements** Wear protective gloves/protective clothing/eye protection/face protection. P280 IF ON SKIN: Wash with plenty of water. P302+P352 P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. Additional advice on labelling Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
212-782-2	2-hydroxyethyl methacrylate	30 - < 35 %
868-77-9	Xi - Irritant R36/38-43	
607-124-00-X	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H319 H315 H317	
200-578-6	ethanol, ethyl alcohol	25 - < 30 %
64-17-5	F - Highly flammable R11	
603-002-00-5	Flam. Liq. 2; H225	
217-388-4	GDMA	20 - < 25 %
1830-78-0	Xi - Irritant R36/37/38	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335	
202-327-6	dibenzoyl peroxide; benzoyl peroxide	1 - < 5 %
94-36-0	E - Explosive, O - Oxidizing, Xi - Irritant R3-7-36-43	
617-008-00-0	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1; H241 H319 H317	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures



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After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Seek medical advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. Foam. Extinguishing powder. Carbon dioxide (CO2). Sand.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Wipe up with absorbent material (eg. cloth, fleece). Clear contaminated areas thoroughly.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.

Restricted to professional users. Keep out of the reach of children. Observe instructions for use.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

Further information on handling

After use replace the closing cap immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Further information on storage conditions

Recommended storage temperature: 4 - 8 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
1		-	-		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

When using do not eat, drink or smoke.

Eye/face protection

Framed glasses.

Hand protection

Single-use gloves.

Skin protection

Lab apron.

Respiratory protection

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a. I. Information on pasic physical an	u chemical properties		
Physical state:	liquid		
Colour:	colourless		
Odour:	characteristic		
		Te	st method
pH-Value:		6.5	
Changes in the physical state			
Density:		1.02 g/cm ³	
Water solubility:		partially soluble	
Solubility in other solvents Ethanol.			

SECTION 10: Stability and reactivity

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.4. Conditions to avoid

heat.

10.5. Incompatible materials

Oxidizing agents.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name					
	Exposure routes	Method	Dose	Species	Source	
868-77-9	2-hydroxyethyl methacrylate	2-hydroxyethyl methacrylate				
	oral	LD50	5050 mg/kg	Rat		
64-17-5	ethanol, ethyl alcohol					
	oral	LD50	6200 mg/kg	Rat	IUCLID	
	inhalative (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS	
1830-78-0	GDMA					
	oral	LD50	>2000 mg/kg	Rat	OECD 423	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (2-hydroxyethyl methacrylate), (dibenzoyl peroxide; benzoyl peroxide)

STOT-single exposure

May cause respiratory irritation.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas	
64-17-5	ethanol, ethyl alcohol					
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48 h	Daphnia magna	IUCLID
1830-78-0	GDMA					
	Acute fish toxicity	LC50	43.2 mg/l	96 h	Poecilia reticulata (Guppy)	

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
868-77-9	2-hydroxyethyl methacrylate	0,47
64-17-5	ethanol, ethyl alcohol	-0,31

Further information

According to the criteria of the EC-classification and labelling "dangerous for the environment" (93/21/EEC) the material/product is not to be classified as dangerous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Safety Data Sheet



according to Regulation (EC) No 1907/2006

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SECTION 14: Transport information			
Land transport (ADR/RID)			
<u>14.1. UN number:</u>	UN 1170		
14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
<u>14.3. Transport hazard class(es):</u>	3		
<u>14.4. Packing group:</u>	II		
Hazard label:	3		
Classification code:	F1		
Limited quantity:	LQ4		
Hazard No: Other applicable information (land trans	33		
Special provisions: 274 E3 : 1 D/E Special provisions: 274 601 6 E2 : 2 Special provisions: 640C Special provisions: 144 601 Marine transport (IMDG)			
	UN 1170		
<u>14.1. UN number:</u> 14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
14.2. Transport hazard class(es):	3		
14.4. Packing group: Hazard label:	3		
Limited quantity:	3 3 L		
EmS:	F-E, S-D		
Other applicable information (marine tra Special provisions: 274, 330, Special provisions: 944 Special provisions: 144, 330 Air transport (ICAO)	944		
	UN 1170		
<u>14.1. UN number:</u> 14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
	3		
14.3. Transport hazard class(es):			
14.4. Packing group:	1		
Hazard label: Limited quantity Passenger:	3 1 L		
IATA-packing instructions - Passenger:	305		
IATA-max. quantity - Passenger:	505 5 L		
IATA-packing instructions - Cargo:	307		
IATA-max. quantity - Cargo:	60 L		
Other applicable information (air transp E2	ort)		
: Y305 60 L			



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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Additional information

SECTION 16: Other information

Relevant R-phrases (Number and full text)

- 03 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- 07 May cause fire.
- 11 Highly flammable.
- 36 Irritating to eyes.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 36/38 Irritating to eyes and skin.
- 43 May cause sensitisation by skin contact.

Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

for dental use only

1.3. Details of the supplier of the safety data sheet

Company name:	Coltène/Whaledent AG
Street:	Feldwiesenstrasse 20
Place:	CH-9450 Altstätten
Telephone:	+41 (71) 75 75 300
Telefax:	+41 (71) 75 75 301
e-mail:	info.ch@coltene.com
Internet:	www.coltene.com
Responsible Department:	Regulatory Affairs msds@coltene.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F - Highly flammable R phrases: Highly flammable.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories: Flammable liquid: Flam. Liq. 2 Hazard Statements: Highly flammable liquid and vapour.

2.2. Label elements

Signal word:	Danger
Pictograms:	GHS02



Hazard statements

H225

Highly flammable liquid and vapour.

Precautionary statements P233 Ke

Keep container tightly closed.

Additional advice on labelling

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.

SECTION 3: Composition/information on ingredients



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3.2. Mixtures

Hazardous components

Chemical name	Quantity
Classification according to Directive 67/548/EEC	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
ethanol, ethyl alcohol	85 - < 90 %
F - Highly flammable R11	
Flam. Liq. 2; H225	
	Classification according to Directive 67/548/EEC Classification according to Regulation (EC) No. 1272/2008 [CLP] ethanol, ethyl alcohol F - Highly flammable R11

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Seek medical advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. Foam. Extinguishing powder. Carbon dioxide (CO2). Sand.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Wipe up with absorbent material (eg. cloth, fleece). Clear contaminated areas thoroughly.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Restricted to professional users. Keep out of the reach of children. Observe instructions for use.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

Safety Data Sheet



according to Regulation (EC) No 1907/2006

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Further information on handling

After use replace the closing cap immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Further information on storage conditions

Recommended storage temperature: 4 - 8 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

When using do not eat, drink or smoke.

Eye/face protection

Framed glasses.

Hand protection

Single-use gloves.

Skin protection

Lab apron.

Respiratory protection

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.

9.1. Information on basic physica	al and chemical properties		
Physical state:	liquid		
Colour:	colourless		
Odour:	characteristic		
		Test	method
Changes in the physical state)		
Initial boiling point and boiling r	ange:	78 - 80 °C	
Flash point:		15 °C	
Lower explosion limits:		3.5 vol. %	
Upper explosion limits:		19 vol. %	
Density:		0.84 g/cm ³	
Water solubility:		easily soluble.	

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

heat.



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10.5. Incompatible materials

Oxidizing agents.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
64-17-5	ethanol, ethyl alcohol				
	oral	LD50	6200 mg/kg	Rat	IUCLID
	inhalative (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS

Irritation and corrosivity

Hazards identification: Frequently or prolonged contact with skin may cause dermal irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
64-17-5	ethanol, ethyl alcohol					
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48 h	Daphnia magna	IUCLID

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31

Further information

According to the criteria of the EC-classification and labelling "dangerous for the environment" (93/21/EEC) the material/product is not to be classified as dangerous to the environment.

SECTION 13: Disposal considerations

SECTION 14: Transport information

13.1. Waste treatment methods

Advice on disposal

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	UN 1170
14.2. UN proper shipping name:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3. Transport hazard class(es):	3



Revision date: 20.04.2015 Print date: 30.04.2015 Page 5 of 6 14.4. Packing group: I Hazard label: 3 Classification code: F1 Limited quantity: LC4 Hazard No: 33 Other applicable information (land transport) Special provisions: 274 E3 :1 DE Special provisions: 274 601 640C E2 :2 Special provisions: 124 601 Marine transport (MDO) 14.1. UN number: UN 1170 14.2. Proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 14.3. Transport hazard class(es): 3 14.2. Proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 14.3. Transport hazard class(es): 3 14.4. Producting aroup: II Hazard label: 3 Limited quantity: 3.L Ens: F.E. S.D Other applicable information (marine transport) Special provisions: 144, 330 Air transport (ICAO) 14.1. UN number: UN 1170 14.2. UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) 14.3. Transport hazard class(es): 3 14.1. UN number: UN 1170 14.1. UN number: U		ParaBond Adhesive B	
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Classification code: F1 Limited quantity: LQ4 Hazard No: 33 Other applicable information (land trans====================================	14.4. Packing group:	II	
		3	
Hazard No: 33 Other applicable information (land transport) Special provisions: 274 E3 D/E Special provisions: 274 601 640C E2 :2 Special provisions: 274 601 640C E2 :2 Special provisions: 274 601 640C Special provisions: 400 Special provisions: 72, 800 HI 14.1 VN number: UN 1170 Hazard label: 3 Limited quantity: 3 L EmS: FE, S-D Other applicable information (marine transport) Special provisions: 72, 30, 944 Special provisions: 72, 30, 944 Special provisions: 72, 30, 944 Special provisions: 72, 30, 944 Special provisions: 74, 30, 944 Special provisions: 74, 30, 944 Special provisions: 74, 30, 944 Special provisions: 74, 30, 944 Special provisions: 74, 30, 944 Special provisions: 744, 30, 944 Special provisions: 74, 30, 944 Special provisions: 74, 30, 944 <td< td=""><th></th><td></td><td></td></td<>			
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Additional information



ParaBond Adhesive B

Revision date: 20.04.2015

Print date: 30.04.2015

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SECTION 16: Other information

Relevant R-phrases (Number and full text)

Highly flammable.

Relevant H- and EUH-phrases (Number and full text)

H225 Highly flammable liquid and vapour.

Further Information

11

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)