

according to Regulation (EC) No 1907/2006

**ParaCem Universal DC Catalyst**

Revision date: 04.07.2012

Print date: 10.08.2012

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

ParaCem Universal DC Catalyst

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

for dental use only

**Details of the supplier of the safety data sheet**

Company name:	Coltene/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

**SECTION 2: Hazards identification****Classification of the substance or mixture**

Indications of danger : Irritant

R-phrases:

Irritating to eyes, respiratory system and skin.

May cause sensitization by skin contact.

**Label elements**

Danger symbols: Xi - Irritant



Xi - Irritant

**Hazardous components which must be listed on the label**  
TEGDMA**R phrases**

36/37/38	Irritating to eyes, respiratory system and skin.
43	May cause sensitization by skin contact.

**S phrases**

24	Avoid contact with skin.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37	Wear suitable gloves.

**SECTION 3: Composition/information on ingredients****Mixtures**

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**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
216-367-7	BISGMA	10 - 15 %
1565-94-2	Xi R36/37/38	
203-652-6	TEGDMA	5 - 10 %
109-16-0	Xi R36/37/38-43	
202-327-6	dibenzoyl peroxide; benzoyl peroxide	< 1 %
94-36-0	E, O, Xi R3-7-36-43	
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1; H241 H319 H317	
231-667-8	sodium fluoride	< 1 %
7681-49-4	T, Xi R25-36/38-32	
009-004-00-7	Acute Tox. 3, Eye Irrit. 2, Skin Irrit. 2; H301 H319 H315	

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

**SECTION 4: First aid measures****Description of first aid measures****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 attention if problems persist.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

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

**Additional information**

Extinguishing materials should be selected according to the surrounding area.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

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

**SECTION 7: Handling and storage****Precautions for safe handling**

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**Advice on safe handling**

Avoid contact with skin and eyes.

Restricted to professional users. Keep out of the reach of children.

**Further information on handling**

After use replace the closing cap immediately.

**Conditions for safe storage, including any incompatibilities****Further information on storage conditions**

Substances sensitive to light.

Recommended storage temperature: 4 - 8 °C

**SECTION 8: Exposure controls/personal protection****Control parameters****Exposure limits (EH40)**

CAS No	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

**Exposure controls****Protective and hygiene measures**

When using do not eat, drink or smoke.

**Hand protection**

Single-use gloves.

**Eye protection**

Framed glasses.

**Skin protection**

Lab apron.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

Paste

Colour:

off-white

**Test method****Changes in the physical state**

Density (at 23 °C):

1.9 g/cm³

Water solubility:

insoluble

(at 23 °C)

**Solubility in other solvents**

Ethanol. (partially soluble)

**SECTION 10: Stability and reactivity****Conditions to avoid**

Light.

UV-radiation/sunlight.

**SECTION 11: Toxicological information****Information on toxicological effects**

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**Acute toxicity**

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7681-49-4	sodium fluoride				
	oral	LD50	52 mg/kg	Rat	RTECS

**Sensitising effects**

May cause sensitization in susceptible people.

**SECTION 12: Ecological information****Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
7681-49-4	sodium fluoride					
	Acute fish toxicity	LC50	925 mg/l	96	Gambusia affinis	
	Acute algae toxicity	ErC50	850 mg/l	72	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	338 mg/l	48	Daphnia magna	IUCLID

**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****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.

**SECTION 14: Transport information****Land transport (ADR/RID)**UN number: —**Inland waterways transport**UN number: —**Marine transport**UN number: —**Air transport**UN/ID number: —**Other applicable information**

Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

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**SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

- |          |  |
|----------|--|
| 03       | Extreme risk of explosion by shock, friction, fire or other sources of ignition. |
| 07       | May cause fire.  |
| 25       | Toxic if swallowed.  |
| 32       | Contact with acids liberates very toxic gas.                                     |
| 36       | Irritating to eyes.  |
| 36/37/38 | Irritating to eyes, respiratory system and skin.                                 |
| 36/38    | Irritating to eyes and skin.   |
| 43       | May cause sensitization by skin contact.   |

**Full text of H-Statements referred to under sections 2 and 3**

- |      |  |
|------|--|
| H241 | Heating may cause a fire or explosion. |
| H301 | Toxic if swallowed.                    |
| H315 | Causes skin irritation.                |
| H317 | May cause an allergic skin reaction.   |
| H319 | Causes serious eye 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****Product identifier**

ParaBond Adhesive B

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

for dental use only

**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

**SECTION 2: Hazards Identification****Classification of the substance or mixture**

Indications of danger : Highly flammable

R-phrases:

Highly flammable.

**Label elements**

Danger symbols:

F - Highly flammable



F - Highly flammable

**R phrases**

11

Highly flammable.

**SECTION 3: Composition/information on ingredients****Mixtures****Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
200-578-6	ethanol, ethyl alcohol	
64-17-5	F R11	85 - 90 %
603-002-00-5	Flam. Liq. 2; H225	

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

**SECTION 4: First aid measures****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****Extinguishing media****Suitable extinguishing media**Water spray. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Sand.**Additional information**

Extinguishing materials should be selected according to the surrounding area.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation. Guide people to safety.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

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

**SECTION 7: Handling and storage****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.

**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.

**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****Control parameters****Exposure limits (EH40)**

CAS No	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

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**Exposure controls****Protective and hygiene measures**

When using do not eat, drink or smoke.

**Respiratory protection**

Provide adequate ventilation.

**Hand protection**

Single-use gloves.

**Eye protection**

Framed glasses.

**Skin protection**

Lab apron.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: liquid  
Colour: colourless  
Odour: characteristic

**Test method****Changes in the physical state**

Boiling point: 78 - 80 °C  
Flash point: 15 °C  
Lower explosion limits: 3.5 vol. %  
Upper explosion limits: 19 vol. %  
Density: 0.84 g/cm<sup>3</sup>  
Water solubility: easily soluble.

**SECTION 10: Stability and reactivity****Conditions to avoid**

heat.

**Incompatible materials**

Oxidizing agents.

**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
64-17-5	ethanol, ethyl alcohol				
	oral	LD50	6200 mg/kg	Rat	IUCLID

**Irritation and corrosivity**

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

**SECTION 12: Ecological information**



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**Toxicity**

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

**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****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.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**UN number:** 1170  
**UN proper shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3  
Classification code: F1  
Limited quantity: LQ4  
Hazard No: 33

**Other applicable information (land transport)**

Special provisions: 274  
E3  
: 1  
D/E  
Special provisions: 274 601 640C  
E2  
: 2  
Special provisions: 640C  
Special provisions: 144 601

**Marine transport**

**UN number:** 1170  
**UN proper shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
**Transport hazard class(es):** 3  
**Packing group:** II

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Hazard label: 3  
Limited quantity: 3 L  
EmS: F-E, S-D

**Other applicable information (marine transport)**

Special provisions: 274, 330, 944

Special provisions: 944

Special provisions: 144, 330

**Air transport**

**UN/ID number:** 1170  
**UN proper shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3  
Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 305  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 307  
IATA-max. quantity - Cargo: 60 L

**Other applicable information (air transport)**

E2  
: Y305  
60 L

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information****SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

11 Highly flammable.

**Full text of H-Statements referred to under sections 2 and 3**

H225 Highly flammable liquid and vapour.

**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.)*

**ParaBond Non-Rinse Conditioner**

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

ParaBond Non-Rinse Conditioner

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

for dental use only

**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

**SECTION 2: Hazards identification****Classification of the substance or mixture**

Indications of danger : Irritant

R-phrases:

Irritating to eyes and skin.

May cause sensitization by skin contact.

**Label elements**

Danger symbols: Xi - Irritant



Xi - Irritant

**Hazardous components which must be listed on the label**

2-hydroxyethyl methacrylate

**R phrases**

36/38	Irritating to eyes and skin.
43	May cause sensitization by skin contact.

**S phrases**

24	Avoid contact with skin.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37	Wear suitable gloves.

**SECTION 3: Composition/information on ingredients****Mixtures**

**ParaBond Non-Rinse Conditioner**

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**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
212-782-2	2-hydroxyethyl methacrylate	45 - 50 %
868-77-9	Xi R36/38-43	
607-124-00-X	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H319 H315 H317	
239-268-0	Acrylamido sulphonic acid	5 - 10 %
15214-89-8	C R34	

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

**SECTION 4: First aid measures****Description of first aid measures****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 attention if problems persist.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

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

**Additional information**

Extinguishing materials should be selected according to the surrounding area.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

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

**SECTION 7: Handling and storage****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.

**Further information on handling**

After use replace the closing cap immediately.

**Conditions for safe storage, including any incompatibilities**

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**Further information on storage conditions**

Substances sensitive to light.

Recommended storage temperature: 4 - 8 °C

**SECTION 8: Exposure controls/personal protection****Control parameters****Exposure controls****Protective and hygiene measures**

When using do not eat, drink or smoke.

**Hand protection**

Single-use gloves.

**Eye protection**

Framed glasses.

**Skin protection**

Lab apron.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:

liquid

Colour:

colourless

**Test method****Changes in the physical state**

Density:

1.2 g/cm<sup>3</sup>**Solubility in other solvents**

Ethanol.

**SECTION 10: Stability and reactivity****Conditions to avoid**

Light.

UV-radiation/sunlight.

**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50	5050 mg/kg	Rat	

**Sensitising effects**

May cause sensitization in susceptible people.

**SECTION 12: Ecological information**

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**Toxicity**

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	h	Species
868-77-9	2-hydroxyethyl methacrylate				
	Acute fish toxicity	LC50	227 mg/l	96	Pimephales promelas

**Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
868-77-9	2-hydroxyethyl methacrylate	0,47

**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****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.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**UN number:** —

**Inland waterways transport**

**UN number:** —

**Marine transport**

**UN number:** —

**Air transport**

**UN/ID number:** —

**Other applicable information**

Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information****SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

- 34 Causes burns.  
36/38 Irritating to eyes and skin.  
43 May cause sensitization by skin contact.

**Full text of H-Statements referred to under sections 2 and 3**

- H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.



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H319 Causes serious eye 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****Product identifier**

ParaBond Adhesive A

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

for dental use only

**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

**SECTION 2: Hazards identification****Classification of the substance or mixture**

Indications of danger : Highly flammable, Irritant

R-phrases:

Highly flammable.

Irritating to eyes, respiratory system and skin.

May cause sensitization by skin contact.

**Label elements**

Danger symbols:

F - Highly flammable; Xi - Irritant



F - Highly flammable

Xi - Irritant

**Hazardous components which must be listed on the label**

2-hydroxyethyl methacrylate

dibenzoyl peroxide; benzoyl peroxide

**R phrases**

11 Highly flammable.  
36/37/38 Irritating to eyes, respiratory system and skin.  
43 May cause sensitization by skin contact.

**S phrases**

24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
37 Wear suitable gloves.

**SECTION 3: Composition/information on ingredients****Mixtures**

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**ParaBond Adhesive A**

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**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
212-782-2	2-hydroxyethyl methacrylate	30 - 35 %
868-77-9	Xi 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 R11	
603-002-00-5	Flam. Liq. 2; H225	
202-327-6	dibenzoyl peroxide; benzoyl peroxide	1 - 5 %
94-36-0	E, O, Xi R3-7-36-43	
617-008-00-0	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1; H241 H319 H317	

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

**SECTION 4: First aid measures****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****Extinguishing media****Suitable extinguishing media**

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

**Additional information**

Extinguishing materials should be selected according to the surrounding area.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation. Guide people to safety.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

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

**SECTION 7: Handling and storage****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes.

according to Regulation (EC) No 1907/2006

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Restricted to professional users. Keep out of the reach of children.

**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.

**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****Control parameters****Exposure limits (EH40)**

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

**Exposure controls****Protective and hygiene measures**

When using do not eat, drink or smoke.

**Respiratory protection**

Provide adequate ventilation.

**Hand protection**

Single-use gloves.

**Eye protection**

Framed glasses.

**Skin protection**

Lab apron.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: liquid  
Colour: colourless  
Odour: characteristic

**Test method**

pH-Value: 6.5

**Changes in the physical state**

Density: 1.02 g/cm³  
Water solubility: partially soluble

**Solubility in other solvents**

Ethanol.

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**SECTION 10: Stability and reactivity****Conditions to avoid**

heat.

**Incompatible materials**

Oxidizing agents.

**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50	5050 mg/kg	Rat	
64-17-5	ethanol, ethyl alcohol				
	oral	LD50	6200 mg/kg	Rat	IUCLID

**Irritation and corrosivity**

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

**Sensitising effects**

May cause sensitization in susceptible people.

**SECTION 12: Ecological information****Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l	96	Pimephales promelas	
64-17-5	ethanol, ethyl alcohol					
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48	Daphnia magna	IUCLID

**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****Waste treatment methods****Advice on disposal**

Can be burnt together with household waste in compliance with official regulations in contact with

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approved waste disposal companies and with authorities in charge.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**UN number:** 1170  
**UN proper shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3  
Classification code: F1  
Limited quantity: LQ4  
Hazard No: 33

**Other applicable information (land transport)**

Special provisions: 274  
E3  
: 1  
D/E  
Special provisions: 274 601 640C  
E2  
: 2  
Special provisions: 640C  
Special provisions: 144 601

**Marine transport**

**UN number:** 1170  
**UN proper shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3  
Limited quantity: 3 L  
EmS: F-E, S-D

**Other applicable information (marine transport)**

Special provisions: 274, 330, 944  
Special provisions: 944  
Special provisions: 144, 330

**Air transport**

**UN/ID number:** 1170  
**UN proper shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3  
Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 305  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 307  
IATA-max. quantity - Cargo: 60 L

**Other applicable information (air transport)**

E2  
: Y305



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60 L

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information****SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

- |          |  |
|----------|--|
| 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 sensitization by skin contact.   |

**Full text of H-Statements referred to under sections 2 and 3**

- |      |  |
|------|--|
| 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.         |

**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.)*