

according to Regulation (EC) No 1907/2006

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Revision date: 26.08.2014

Print date: 18.02.2015

Page 1 of 6

**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**

Indications of danger: Xi - Irritant

R phrases:

May cause sensitisation by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2. Label elements**

Danger symbols: Xi - Irritant



Xi - Irritant

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

TEGDMA

**R phrases**

43 May cause sensitisation by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

24 Avoid contact with skin.

37 Wear suitable gloves.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

according to Regulation (EC) No 1907/2006

**Fill-Up!**

Revision date: 26.08.2014

Print date: 18.02.2015

Page 2 of 6

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
221-950-4	TMPTMA	10 - < 15 %
3290-92-4	N - Dangerous for the environment R51-53	
	Aquatic Chronic 2; H411	
01-2119542176-41		
276-957-5	UDMA	10 - < 15 %
72869-86-4	R52-53	
	Aquatic Chronic 3; H412	
216-367-7	BISGMA	5 - < 10 %
1565-94-2	Xi - Irritant R36/37/38	
	Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H319 H335 H315	
203-652-6	TEGDMA	1 - < 5 %
109-16-0	Xi - Irritant R36/37/38-43	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H315 H319 H317 H335	
	Zinc Silicate	1 - < 5 %
	Skin Irrit. 3, Eye Irrit. 2B, Aquatic Acute 1; H316 H320 H400	
202-327-6	dibenzoyl peroxide; benzoyl peroxide	< 1 %
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 and H phrases: see Section 16.

**SECTION 4: First aid measures****4.1. 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****5.1. Extinguishing media****Suitable extinguishing media**Water. 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****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

according to Regulation (EC) No 1907/2006

**Fill-Up!**

Revision date: 26.08.2014

Print date: 18.02.2015

Page 3 of 6

**6.2. Environmental precautions**

Do not empty into drains or the aquatic environment.

**6.3. 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****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.

**Further information on handling**

After use replace the closing cap immediately.

**7.2. 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****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

**8.2. 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****9.1. Information on basic physical and chemical properties**

Physical state: Paste  
 Colour: off-white

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

Water solubility: insoluble  
 (at 23 °C)

**Solubility in other solvents**

Ethanol. (partially soluble)

**SECTION 10: Stability and reactivity**

according to Regulation (EC) No 1907/2006

**Fill-Up!**

Revision date: 26.08.2014

Print date: 18.02.2015

Page 4 of 6

**10.4. Conditions to avoid**

Light.  
UV-radiation/sunlight.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
3290-92-4	TMPTMA				
	oral	LD50 mg/kg	> 5000	Rat.	
	dermal	LD50 mg/kg	> 3000	Rabbit.	
72869-86-4	UDMA				
	oral	LD50 mg/kg	>2000	Rat.	OECD 401
109-16-0	TEGDMA				
	oral	LD50 mg/kg	10837	Rat.	literature value
	Zinc Silicate				
	oral	LD50	7950 mg/kg	Mouse.	literature infomation

**Sensitising effects**

May cause sensitization in susceptible people.

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
3290-92-4	TMPTMA					
	Acute fish toxicity	LC50	2 mg/l	96 h	Oncorhynchus mykiss	
	Acute crustacea toxicity	EC50	> 9.22 mg/l	48 h	Daphnia magna	
72869-86-4	UDMA					
	Acute fish toxicity	LC50	10.1 mg/l	96 h	Brachydanio rerio (zebrafish)	OECD 203

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

CAS No	Chemical name	Log Pow
3290-92-4	TMPTMA	3.53
72869-86-4	UDMA	3.39
1565-94-2	BISGMA	4.94
109-16-0	TEGDMA	1.88

according to Regulation (EC) No 1907/2006

**Fill-Up!**

Revision date: 26.08.2014

Print date: 18.02.2015

Page 5 of 6

**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.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:** ---**Inland waterways transport (ADN)****14.1. UN number:** ---**Marine transport (IMDG)****14.1. UN number:** ---**Air transport (ICAO)****UN/ID number:** ---**Other applicable information**

Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information****Additional 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.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
43	May cause sensitisation by skin contact.
51	Toxic to aquatic organisms.
52	Harmful to aquatic organisms.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.

**Full text of H statements referred to under Sections 2 and 3**

H241	Heating may cause a fire or explosion.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H335	May cause respiratory irritation.

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**Fill-Up!**

Revision date: 26.08.2014

Print date: 18.02.2015

Page 6 of 6

- H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**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.

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