

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

077213036

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

077213002 077213028 077213044 077213119 077213127 077213135

# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard.

Identity **Cool Temp**

## Section I

Manufacturer's Name **Coltene/Whaledent Inc.**  
Address 750 Corporate Drive  
Mahwah, NJ 07430

Emergency Tel. No. **201-512-8000**  
Tel. No. for Information 201-512-8000  
Date Prepared 2001-02  
Signature of Preparer

## Section II - Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended (optional)	%
Methacrylates				

## Section III - Physical/Chemical Characteristics

Boiling Point	> 150 °C	Specific Gravity	1.6
Vapor Pressure at °C	n.a. (mm Hg)	Melting Point	n.k. °C
Vapor Density (AIR = 1)	> 1	Evaporation Rate	>> 100 (Butyl acetate = 1)
Solubility in Water	none		
Appearance and Odor	tooth colored paste		

## Section IV - Fire and Explosion Hazard Data

Flash Point	> 100 °C	Flammable Limits at °C	LEL n.a.%	UEL n.a.%
Extinguishing Media	water fog, spray, foam, halones, CO <sub>2</sub> , dry extinguishing media, sand			
Special Fire Fighting Procedures	none			
Unusual Fire and Explosion Hazards	none			

## Section V - Reactivity Data

Stability	Unstable <input type="checkbox"/>	Conditions to Avoid
	Stable <input checked="" type="checkbox"/>	strong oxides, temperature > 25°C
Incompatibility (Materials to Avoid)		none
Hazardous Decomposition or Byproducts		none
Hazardous Polymerization	May Occur <input type="checkbox"/>	Conditions to Avoid
	Will Not Occur <input checked="" type="checkbox"/>	none

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**Section VI - Health Hazard Data**

Routes of Entry	Inhalation	Skin	Ingestion
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Health Hazards (Acute and Chronic)	Unpolymerized resin may cause an allergic reaction.		
Carcinogenicity	NTP	IARC Monographs	OSHA Regulated
	none		
Signs and Symptoms of Exposure	Contact allergy.		
Medical Conditions	n.n.		
Generally Aggravated by Exposure			
Emergency and First Aid Procedures	Wash with soap.		

**Section VII - Precautions for Safe Handling and Use**

Steps to Be Taken	Remove cured composite.
In Case Material is Released or Spilled	Polymerized dental composite materials do not cause disturbances in sewage plants.
Waste Disposal Method	Garbage disposal
Precautions to Be Taken in Handling and Storing	Store in a cold place. Avoid direct contact with skin or mucous membrane.
Other Precautions	Handle composite with spatula or syringe. Wear gloves. The product should only be supplied to dentists or dental technicians or upon their instructions.

**Section VIII - Control Measures**

Respiratory Protection (Specify Type)	not required
Ventilation	
Local Exhaust	-
Mechanical (General)	-
Protective Gloves	<u>X</u>
Other Protective Clothing or Equipment	-
Work / Hygienic Practices	Wash hands before breaks and after the end of a day's work.

**Section IX - Information**

New MSDS

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**1. Identification of the substance/preparation and of the company/undertaking****Identification of the substance or preparation**

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**Use of the substance/preparation**

for dental use only

**Company/undertaking identification**

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@coltenewhaledent.ch  
Internet : www.coltenewhaledent.com

**2. Hazards identification****Classification**

Indications of danger : Irritant

R-phrases :

Irritating to eyes and skin.

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

**3. Composition/information on ingredients****Chemical characterization ( Mixture )****Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
		UDMA	30 - 35 %	Xi R36/38
205-016-3	131-17-9	diallyl phthalate	10 - 15 %	Xn, N R22-50-53
221-950-4	3290-92-4	TMPTMA	1 - 5 %	N R51-53

Full text of each relevant R phrase can be found in heading 16.

**4. 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.

**5. Fire-fighting measures****Suitable extinguishing media**

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

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**Additional information**

Extinguishing materials should be selected according to the surrounding area.

**6. Accidental release measures****Personal precautions**

Avoid contact with skin and eyes.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods for cleaning up/taking up**

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

**7. Handling and storage****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.

**Storage****Further information on storage conditions**

Substances sensitive to light.

Recommended storage temperature: 4 - 23 °C

**8. Exposure controls/personal protection****Exposure limit values****Exposure limits (EH40)**

CAS-No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
131-17-9	Diallyl phthalate	-	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. Suitable material: PVC (Polyvinyl chloride).

Roeko Glovyl - or comparable makes from other companies.

**Eye protection**

Framed glasses.

**Skin protection**

Lab apron.

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**9. Physical and chemical properties****General information**

Physical state : Paste  
Colour : off-white

**Important health, safety and environmental information**

Test method

**Changes in the physical state**

Density (at 23 °C) : 2.2 g/cm<sup>3</sup>  
Water solubility (at 23 °C) : insoluble  
Solubility in other solvents : Ethanol. (partially soluble)

**10. Stability and reactivity****Conditions to avoid**

Light.  
UV-radiation/sunlight.

**11. Toxicological information****12. Ecological information****13. Disposal considerations****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.

**14. Transport information****Land transport (ADR/RID)**

UN number : ---  
Warning plate

**Inland waterways transport**

UN number : ---

**Marine transport**

UN number : ---

**Air transport**

UN/ID number : ---

**Further Information**

Not a hazardous material with respect to these transportation regulations.

**15. Regulatory information****Labelling**

Danger symbols : Xi - Irritant

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**R phrases**

- 36/38 Irritating to eyes and skin.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

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

**National regulatory information****16. Other information****Full text of R-phrases referred to under sections 2 and 3**

- 22 Harmful if swallowed.  
36/38 Irritating to eyes and skin.  
50 Very toxic to aquatic organisms.  
51 Toxic 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.

**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.)*

according to Regulation (EC) No 1907/2006

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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: 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  
Responsible Department: Regulatory Affairs  
msds@coltene.com

**1.4. Emergency telephone number:** +41 (0) 44 251 51 51 - Tox Info Suisse (24 h)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

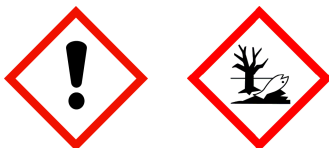
Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Signal word:** Warning**Pictograms:****Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Additional advice on labelling**

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact



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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**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
72869-86-4	UDMA			25 - < 30 %
	276-957-5			
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
131-17-9	diallyl phthalate			10 - < 15 %
	205-016-3	607-086-00-4		
	Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H302 H400 H410			
3290-92-4	TMPTMA			1 - < 5 %
	221-950-4		01-2119542176-41	
	Aquatic Chronic 2; H411			

Full text of H and EUH statements: 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**

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

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

**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**

according to Regulation (EC) No 1907/2006

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**7.1. Precautions for safe handling****Advice on safe handling**

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

**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 - 23 °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
131-17-9	Diallyl phthalate	-	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.

**Eye/face protection**

Framed glasses.

**Hand protection**

Single-use gloves.

**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**

Density (at 23 °C): 1.7 g/cm<sup>3</sup>  
Water solubility: insoluble  
(at 23 °C)

**Solubility in other solvents**

Ethanol. (partially soluble)

**SECTION 10: Stability and reactivity****10.2. Chemical stability**

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

according to Regulation (EC) No 1907/2006

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**10.4. Conditions to avoid**

UV-radiation/sunlight.

**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 route	Dose	Species	Source	Method
131-17-9	diallyl phthalate				
	oral	ATE 500 mg/kg			
3290-92-4	TMPTMA				
	oral	LD50 > 5000 mg/kg	Rat	literature value	
	dermal	LD50 > 3000 mg/kg	Rabbit	literature value	

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye 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	Dose	[h]   [d]	Species	Source	Method
3290-92-4	TMPTMA					
	Acute fish toxicity	LC50 2 mg/l	96 h	Oncorhynchus mykiss	literature value	
	Acute algae toxicity	ErC50 0.177 mg/l	96 h	Pseudokirchneriella subcapitata	literature value	
	Acute crustacea toxicity	EC50 > 9.22 mg/l	48 h	Daphnia magna		

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

CAS No	Chemical name	Log Pow
3290-92-4	TMPTMA	3.53

**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**

according to Regulation (EC) No 1907/2006

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**Land transport (ADR/RID)**

<b>14.1. UN number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diallyl phtalate)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	E

**Marine transport (IMDG)**

<b>14.1. UN number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diallyl phtalate)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9
Special Provisions:	274, 335
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-F

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diallyl phtalate)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9
Special Provisions:	A97 A158
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y964
Excepted quantity:	E1
IATA-packing instructions - Passenger:	964
IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L

**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**

according to Regulation (EC) No 1907/2006

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**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic 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.

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