

according to Regulation (EC) No 1907/2006

**DuoTemp**

Revision date: 12.07.2012

Print date: 15.12.2014

Page 1 of 6

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

DuoTemp

**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, N - Dangerous for the environment

R phrases:

Risk of serious damage to eyes.

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

**2.2. Label elements**

Danger symbols:

Xi - Irritant; N - Dangerous for the environment



Xi - Irritant



N - Dangerous for the environment

**R phrases**

41	Risk of serious damage to eyes.
50/53	Very toxic 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.
39	Wear eye/face protection.
61	Avoid release to the environment. Refer to special instructions / Safety data sheets.

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

according to Regulation (EC) No 1907/2006

**DuoTemp**

Revision date: 12.07.2012

Print date: 15.12.2014

Page 2 of 6

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
215-222-5	zinc oxide	30 - < 35 %
1314-13-2	N - Dangerous for the environment R50-53	
030-013-00-7	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
276-957-5	UDMA	15 - < 20 %
72869-86-4	R52-53	
	Aquatic Chronic 3; H412	
231-793-3	zinc sulfate monohydrate	10 - < 15 %
7446-19-7	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-41-50-53	
	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 1; H302 H318 H410	

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.

**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.

according to Regulation (EC) No 1907/2006

**DuoTemp**

Revision date: 12.07.2012

Print date: 15.12.2014

Page 3 of 6

**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**

Recommended storage temperature: 15 - 23 °C

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****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
Odour:	fruity

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

Density (at 23 °C):	2.5 g/cm <sup>3</sup>
Water solubility: (at 23 °C)	insoluble

**Solubility in other solvents**

ketone.

**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**Light.  
UV-radiation/sunlight.**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

according to Regulation (EC) No 1907/2006

**DuoTemp**

Revision date: 12.07.2012

Print date: 15.12.2014

Page 4 of 6

**Acute toxicity**

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1314-13-2	zinc oxide				
	oral	LD50 mg/kg	> 5000	Rat	IUCLID
72869-86-4	UDMA				
	oral	LD50 mg/kg	>2000	Rat.	OECD 401
7446-19-7	zinc sulfate monohydrate				
	oral	LD50 mg/kg	574-2949	Rat.	
	dermal	LD50 mg/kg	>2000	Rat.	

**Additional information on tests**

No data available

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

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
72869-86-4	UDMA					
	Acute fish toxicity	LC50	10.1 mg/l	96 h	Brachydanio rerio (zebrafish)	OECD 203
7446-19-7	zinc sulfate monohydrate					
	Acute crustacea toxicity	EC50	1.13 mg/l	48 h	Ceriodaphnia spec	US EPA 821-R-02-012

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

CAS No	Chemical name	Log Pow
72869-86-4	UDMA	3.39

**Further information**

No data available

**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:** 3077

according to Regulation (EC) No 1907/2006

### DuoTemp

Revision date: 12.07.2012

Print date: 15.12.2014

Page 5 of 6

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., zinc oxide

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9

Classification code: M7

Limited quantity: LQ27

Hazard No: 90

**Other applicable information (land transport)**

Special provisions: 274 335 601

E1

: 3

E

**Marine transport (IMDG)**

**14.1. UN number:** 3077

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., zinc oxide

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9

Marine pollutant: •

Limited quantity: 5 kg

EmS: F-A, S-F

**Other applicable information (marine transport)**

Special provisions: 274, 909, 944

**Air transport (ICAO)**

**UN/ID number:** 3077

**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., zinc oxide

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 911

IATA-max. quantity - Passenger: 400 kg

IATA-packing instructions - Cargo: 911

IATA-max. quantity - Cargo: 400 kg

**Other applicable information (air transport)**

E1

: Y911

400 kg

## SECTION 15: Regulatory information

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

National regulatory information

## SECTION 16: Other information

according to Regulation (EC) No 1907/2006

**DuoTemp**

Revision date: 12.07.2012

Print date: 15.12.2014

Page 6 of 6

**Full text of R phrases referred to under Sections 2 and 3**

- |       |  |
|-------|--|
| 22    | Harmful if swallowed.  |
| 41    | Risk of serious damage to eyes.  |
| 50    | Very toxic to aquatic organisms.   |
| 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 52    | Harmful to aquatic organisms.  |
| 53    | May cause long-term adverse effects in the aquatic environment.                                  |

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

- |      |   |
|------|---|
| H302 | Harmful if swallowed.                                 |
| H318 | Causes serious eye damage.                            |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very 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.

---

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