

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Orthocryl LC / Orthocryl LC bite plane paste, transp.**

Print date: 29.01.2016

Product code: 160-401

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

Orthocryl LC / Orthocryl LC bite plane paste, transp.

**Further trade names**

Article No.: 160-401-00, 160-402-00, 160-403-00, 160-404-00, 160-405-00, 160-406-00, 160-410-00

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

Health services.

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

Company name:	DENTAURUM GmbH & Co. KG	
Street:	Turnstr. 31	
Place:	D-75228 Ispringen	
Telephone:	+49 7231 803 0	Telefax: +49 7231 803 295
e-mail:	info@dentaurum.de	
Internet:	www.dentaurum.com	

**Further Information**

Emergency telephone:  
 07:00 - 16:15 (Mo - Do), 07:00 - 13:15 (Fr) +49 7231 803 184  
 16:15 - 18:00 (Mo - Do), 13:15 - 18:00 (Fr) +49 7231 803 0

**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: Xi - Irritant  
 R phrases:  
 Irritating to eyes, respiratory system and skin.

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

Hazard categories:  
 Skin corrosion/irritation: Skin Irrit. 2  
 Serious eye damage/eye irritation: Eye Irrit. 2  
 Respiratory/skin sensitization: Skin Sens. 1  
 Hazard Statements:  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 Causes serious eye irritation.

**2.2. Label elements****Hazardous components which must be listed on the label**

1,4-Butanediol dimethacrylate

Signal word: Warning

Pictograms: GHS07

**Hazard statements**

H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
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.

### 2.3. Other hazards

none

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of different monomer and oligomer

#### 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		
	PEG-400-Dimethacrylate	10-25 %
25852-47-5	Xi - Irritant R36/37/38 Skin Irrit. 2, Eye Irrit. 2; H315 H319	
218-218-1	1,4-Butanediol dimethacrylate	2,5-10 %
2082-81-7	Skin Sens. 1, Aquatic Acute 2; H317 H401	
278-355-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	< 2,5 %
75980-60-8	Repr. Cat. 3 R62	
015-203-00-X	Repr. 2; H361f	

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated clothing immediately and dispose off safely.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. Medical treatment necessary.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.  
In case of skin irritation, seek medical treatment.

#### After contact with eyes

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

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### After ingestion

Call a physician immediately.  
Rinse mouth immediately and drink plenty of water.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam.  
Extinguishing powder.  
Carbon dioxide (CO<sub>2</sub>).  
Water spray.

#### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

No data available

### 5.3. Advice for firefighters

Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.  
Provide adequate ventilation.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.  
Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.  
Disposal: see section 13  
Safe handling: see section 7  
Personal protection equipment: see section 8

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed.

#### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.  
Take precautionary measures against static discharge.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Protect against: Light.

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Do not store at temperatures over: 30°C

#### Advice on storage compatibility

Do not store together with: Food and fodder

#### 7.3. Specific end use(s)

none

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### 8.2. Exposure controls

##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

##### Protective and hygiene measures

Remove contaminated, saturated clothing immediately.

Avoid contact with skin and eyes.

Do not breathe gas/fumes/vapour/spray.

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Recommendation:

Dematril Single-use gloves. NBR (Nitrile rubber). 0,11 mm

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Protective clothing.

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protection necessary at: aerosol or mist generation.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	viscous
Colour:	various, depending on coloration
Odour:	like: ester

#### Test method

pH-Value:	not determined
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##### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	251 °C
Sublimation point:	not determined
Softening point:	not determined

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Pour point:	not determined
Flash point:	101 °C
Sustaining combustion:	No data available
<b>Flammability</b>	
Solid:	not determined
Gas:	not determined
<b>Explosive properties</b>	
none	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	400 °C
<b>Auto-ignition temperature</b>	
Solid:	not determined
Gas:	not determined
Decomposition temperature:	not determined
Vapour pressure:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,135 g/cm <sup>3</sup>
Bulk density:	not determined
Water solubility:	partially miscible
Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined

#### **9.2. Other information**

Solid content: not determined

Odour threshold: not determined

### **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

#### **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

#### **10.3. Possibility of hazardous reactions**

Reacts with : Reducing agents. Heavy metals. Peroxides. Radical former.  
In case of warming: Polymerization.

#### **10.4. Conditions to avoid**

No data available

#### **10.5. Incompatible materials**

Reacts with : Reducing agents. Heavy metals. Peroxides. Radical former.

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### 10.6. Hazardous decomposition products

none

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

LD50: > 5000 mg/kg Rat. (OECD 401; 02.1987)  
1,4-Butandiol dimethacrylat oral. 10120 mg/kg Rat.

#### Irritation and corrosivity

Causes skin irritation.  
Causes serious eye irritation.

#### Sensitising effects

May produce an allergic reaction.

#### STOT-single exposure

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

#### Severe effects after repeated or prolonged exposure

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

#### Aspiration hazard

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

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2082-81-7	1,4-Butanediol dimethacrylate	3,1

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

not applicable

### 12.6. Other adverse effects

Do not allow to enter into surface water or drains.  
Do not allow to enter into soil/subsoil.  
Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Send to a hazardous waste incinerator facility under observation of official regulations.

#### Waste disposal number of used product

070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and mother liquors  
Classified as hazardous waste.

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**Contaminated packaging**

Dispose of waste according to applicable legislation.

**SECTION 14: Transport information****14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

not applicable

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not applicable

**Other applicable information**

Not a hazardous material with respect to transportation regulations.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): 2 - water contaminating

**Additional information**

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 9.

**Relevant R-phrases (Number and full text)**

36/37/38	Irritating to eyes, respiratory system and skin.
62	Possible risk of impaired fertility.

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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H401	Toxic to aquatic life.

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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