Orthocryl LC / Orthocryl LC bite plane paste, transp.

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
Fax: +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.
Precautionary statements

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

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+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.
P362+P364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.

2.3. Other hazards

none

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization
Mixture of different monomer and oligomer

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>10-25 %</td>
<td>PEG-400-Dimethacrylate</td>
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<tr>
<td>25852-47-5</td>
<td>Xi - Irritant  R36/37/38</td>
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<tr>
<td>218-218-1</td>
<td>1,4-Butanediol dimethacrylate</td>
<td>2.5-10 %</td>
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<tr>
<td>2082-81-7</td>
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<td></td>
</tr>
<tr>
<td>278-355-8</td>
<td>Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>&lt; 2.5 %</td>
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<tr>
<td>75980-80-8</td>
<td>Repr. Cat. 3 R62</td>
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<td>015-203-00-X</td>
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</tbody>
</table>

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 of 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.
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 (CO2).
      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.
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:
Dermatril 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

pH-Value: not determined

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

**Pour point:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustaining combustion</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Flammability**

- **Solid:** not determined
- **Gas:** not determined

**Explosive properties**

- **none**

**Lower explosion limits:** not determined

**Upper explosion limits:** not determined

**Ignition temperature:** 400 °C

**Auto-ignition temperature**

- **Solid:** not determined
- **Gas:** not determined

**Decomposition temperature:** not determined

**Vapour pressure:** not determined

**Density (at 20 °C):** 1.135 g/cm³

**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

**Odour threshold:** not determined

### 9.2. Other information

**Solid content:** 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

- In case of warming: Polymerization.

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**

- LD50: > 5000 mg/kg Rat. (OECD 401; 02.1987)
  - 1,4-Butanedioldimethacrylate 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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>2082-81-7</td>
<td>1,4-Butanediol dimethacrylate</td>
<td>3,1</td>
</tr>
</tbody>
</table>

#### 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.
Safety Data Sheet

according to Regulation (EC) No 1907/2006

Orthocryl LC / Orthocryl LC bite plane paste, transp.

Product code: 160-401

Contaminated packaging
Disposing 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 singulary 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.)