SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

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

Use of the substance/mixture

Use as laboratory reagent

1.3. Details of the supplier of the safety data sheet

Company name: VITA Zahnfabrik H.Rauter GmbH & Co.KG
Post-office box: 1338
79704 Bad Säckingen

Telephone: +49(0)7761-562-0
Telefax: +49(0)7761-562-299
E-mail: info@vita-zahnfabrik.com
Internet: www.vita-zahnfabrik.com

1.4. Emergency telephone number:

Further Information

medical device

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
Respiratory or skin sensitisation: Skin Sens. 1
Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling
2-hydroxyethyl methacrylate
7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)
2-dimethylaminoethyl methacrylate
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Signal word: Warning

Pictograms:

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC No</td>
<td>Index No</td>
<td>REACH No</td>
</tr>
<tr>
<td>GHS Classification</td>
<td></td>
<td></td>
</tr>
<tr>
<td>72869-86-4</td>
<td>7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)</td>
<td>15 - &lt; 20 %</td>
</tr>
<tr>
<td>276-957-5</td>
<td></td>
<td>01-2120751202-68</td>
</tr>
<tr>
<td>Skin Sens. 1B, Aquatic Chronic 3; H317 H412</td>
<td></td>
<td></td>
</tr>
<tr>
<td>94108-97-1</td>
<td>Ditrimethylolpropene Tetraacrylate</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td>302-434-9</td>
<td></td>
<td>01-2119977121-41</td>
</tr>
<tr>
<td>Eye Irrit. 2, Aquatic Chronic 2; H319 H411</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2867-47-2</td>
<td>2-dimethylaminoethyl methacrylate</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td>220-688-8</td>
<td></td>
<td>607-132-00-3</td>
</tr>
<tr>
<td>Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H312 H302 H315 H319 H317</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10373-78-1</td>
<td>Camphorquinone</td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>233-814-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335</td>
<td></td>
<td></td>
</tr>
<tr>
<td>75980-60-8</td>
<td>Diphényl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>278-355-8</td>
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<td></td>
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<tr>
<td>Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361f H317 H411</td>
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</tr>
<tr>
<td>79-41-4</td>
<td>Methacrylsäure</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>201-204-4</td>
<td></td>
<td>01-2199463884-26</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an
ophthalmologist immediately.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media

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

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

Non-flammable.

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

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

Use as laboratory reagent

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

Occupational exposure limits

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fib/cm³</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>79-41-4</td>
<td>Methacrylic acid</td>
<td>20</td>
<td>70</td>
<td></td>
<td>TWA (8 h)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40</td>
<td>140</td>
<td></td>
<td>STEL (15 min)</td>
<td></td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide, respirable dust</td>
<td></td>
<td></td>
<td>4</td>
<td>TWA (8 h)</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Protective and hygiene measures
- Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.
- Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Eye/face protection
- Suitable eye protection: goggles.

Hand protection
- 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. Recommended glove articles KCL DermatrilP NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480 min

Skin protection
- Use of protective clothing.

Respiratory protection
- Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:
- Colour: not determined
- pH-Value: not determined

Changes in the physical state
- Melting point: not determined
- Initial boiling point and boiling range: not determined
- Flash point: 151 °C

Flammability
- Solid: not determined
- Gas: not applicable

Explosive properties
- The product is not: Explosive.
- Lower explosion limits: not determined
- Upper explosion limits: not determined
Auto-ignition temperature

Solid: not determined
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: <=1100 hPa
(at 50 °C)

Density: not determined

Water solubility: No

Solubility in other solvents
not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: 49.4 %

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

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.
### Chemical name and CAS No

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2867-47-2</td>
<td>2-dimethylaminoethyl methacrylate</td>
<td>oral</td>
<td>ATE 500 mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE 1100 mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>79-41-4</td>
<td>Methacrylsäure</td>
<td>oral</td>
<td>ATE 500 mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE 300 mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
<td>ATE 11 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE 1,5 mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### irritation and corrosivity
- Causes skin irritation.
- Causes serious eye irritation.

### Sensitising effects
- May cause an allergic skin reaction.
- (7,7,9-Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers); 2-dimethylaminoethyl methacrylate; Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)

### Carcinogenic/mutagenic/toxic effects for reproduction
- Based on available data, the classification criteria are not met.

### STOT-single exposure
- Based on available data, the classification criteria are not met.

### STOT-repeated exposure
- Based on available data, the classification criteria are not met.

### Aspiration hazard
- Based on available data, the classification criteria are not met.

### Additional information on tests
- The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### SECTION 12: Ecological information

#### 12.1. Toxicity
- Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability
- The product has not been tested.

#### 12.3. Bioaccumulative potential
- The product has not been tested.

#### 12.4. Mobility in soil
- The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment
- The product has not been tested.

#### 12.6. Other adverse effects
- No information available.

#### Further information
- Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Waste codes/waste designations according to EWC/AVV

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 3243
14.2. UN proper shipping name: SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
   Hazard label: 6.1
   Classification code: T9
   Special Provisions: 217 274 601
   Limited quantity: 500 g
   Excepted quantity: E4
   Transport category: 2
   Hazard No: 60
   Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 3243
14.2. UN proper shipping name: SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
   Hazard label: 6.1
   Classification code: T9
   Special Provisions: 217 274 601 802
   Limited quantity: 500 g
   Excepted quantity: E4

Marine transport (IMDG)

14.1. UN number: UN 3243
14.2. UN proper shipping name: SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
   Hazard label: 6.1
Safety Data Sheet

according to Regulation (EC) No 1907/2006

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Special Provisions:
- Limited quantity: 500 g
- Excepted quantity: E4
- EmS: F-A, S-A

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3243
14.2. UN proper shipping name: SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
14.3. Transport hazard class(es): II
14.4. Packing group: 6.1

Special Provisions: A50
- Limited quantity Passenger: 1 kg
- Passenger LQ: Y644
- Excepted quantity: E4
- IATA-packing instructions - Passenger: 669
- IATA-max. quantity - Passenger: 25 kg
- IATA-packing instructions - Cargo: 676
- IATA-max. quantity - Cargo: 100 kg

14.5. Environmental hazards
- ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user
- No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
- not applicable

SECTION 15: Regulatory information

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

EU regulatory information
- 2010/75/EU (VOC): 0,102 %
- 2004/42/EC (VOC): 0,102 %
- Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information
- Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
- Water hazard class (D): 3 - strongly hazardous to water
- Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment
- Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information
**Safety Data Sheet**

VITA Zahnfabrik H. Rauter GmbH & Co. KG

according to Regulation (EC) No 1907/2006

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 12.08.2019  
Product code: 218  
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**Abbreviations and acronyms**

- **ADR:** Accord européen sur le transport des marchandises dangereuses par Route  
  (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- **IMDG:** International Maritime Code for Dangerous Goods
- **GHS:** Globally Harmonized System of Classification and Labelling of Chemicals
- **EINECS:** European Inventory of Existing Commercial Chemical Substances
- **ELINCS:** European List of Notified Chemical Substances
- **CAS:** Chemical Abstracts Service
- **LC50:** Lethal concentration, 50%
- **LD50:** Lethal dose, 50%
- **CLP:** Classification, labelling and Packaging
- **REACH:** Registration, Evaluation and Authorization of Chemicals
- **GHS:** Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
- **UN:** United Nations
- **DNEL:** Derived No Effect Level
- **DMEL:** Derived Minimal Effect Level
- **PNEC:** Predicted No Effect Concentration
- **ATE:** Acute toxicity estimate
- **LL50:** Lethal loading, 50%
- **EL50:** Effect loading, 50%
- **EC50:** Effective Concentration 50%
- **ErC50:** Effective Concentration 50%, growth rate
- **NOEC:** No Observed Effect Concentration
- **BCF:** Bio-concentration factor
- **PBT:** persistent, bioaccumulative, toxic
- **vPvB:** very persistent, very bioaccumulative
- **RID:** Regulations concerning the international carriage of dangerous goods by rail
- **ADN:** European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
  ( Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
- **EmS:** Emergency Schedules
- **MFAG:** Medical First Aid Guide
- **ICAO:** International Civil Aviation Organization
- **MARPOL:** International Convention for the Prevention of Marine Pollution from Ships
- **IBC:** Intermediate Bulk Container
- **VOC:** Volatile Organic Compounds
- **SVHC:** Substance of Very High Concern

For abbreviations and acronyms, see table at [http://abbrev.esdscom.eu](http://abbrev.esdscom.eu)

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### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2; H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2; H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1; H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 3; H412</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

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

- **H302** Harmful if swallowed.
- **H311** Toxic in contact with skin.
- **H312** Harmful in contact with skin.
- **H314** Causes severe skin burns and eye damage.
- **H315** Causes skin irritation.
- **H317** May cause an allergic skin reaction.
- **H319** Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Further Information
The information is based on the present level of our knowledge. It does not, however, give assurance 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.)