## 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

**Manufacturer**

- **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

**Supplier**

- **Company name**: Company Name
- **Street**: Street
- **Place**: 79704 Town
- **Telephone**: Phone
- **Telefax**: Telefax
- **e-mail**: email
- **Contact person**: Contact person
- **Internet**: url

### 1.4. Emergency telephone number:

+49-(0)761-19240

**Further Information**

medical device

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**UN-GHS (Rev.3)**

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation: Skin Irrit. 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/eye irritation: Eye Irrit. 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation: Skin Sens. 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity: Repr. 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazard Statements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Causes skin irritation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Causes serious eye irritation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>May cause an allergic skin reaction.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suspected of damaging fertility or the unborn child.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 2.2. Label elements

**UN-GHS (Rev.3)**

<table>
<thead>
<tr>
<th>Hazard components for labelling</th>
<th>Hazard components</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,7,9-Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-dimethylaminooethyl methacrylate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Signal word**: Warning
Pictograms:

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
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.
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of waste according to applicable legislation.

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>72869-86-4</td>
<td>7,7,9-Trimethyl-4,13-dioxa-3,14-dioxo-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)</td>
<td>15 - &lt; 20 %</td>
</tr>
<tr>
<td>94108-97-1</td>
<td>Ditrimethylolpropane Tetraacrylate</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td>2867-47-2</td>
<td>2-dimethylaminoethyl methacrylate</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td>10373-78-1</td>
<td>Camphorquinone</td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>75980-60-8</td>
<td>Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>1 - &lt; 5 %</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
When in doubt or if symptoms are observed, get medical advice.

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. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion
Rinse mouth immediately and drink plenty of water. Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. Call a doctor.

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

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

   Advice on protection against fire and explosion
   Usual measures for fire prevention.

7.2. Conditions for safe storage, including any incompatibilities
   Requirements for storage rooms and vessels
   Keep container tightly closed.

   Hints on joint storage
   No information available.
7.3. Specific end use(s)
Use as laboratory reagent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values
Value:
- Titanium dioxide 10 mg/m³ TWA (a)
  (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

Source: Workplace exposure standards for airborne contaminants, Publication date: 16 December 2019

8.2. Exposure controls

Appropriate engineering controls
- Provide adequate ventilation as well as local exhaustion at critical locations.

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. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Eye/face protection
- Suitable eye protection: goggles.

Hand protection
- Wear suitable gloves.
  - Suitable material: NBR (Nitrile rubber)
  - Breakthrough time (maximum wearing time): 480 min

Eye/face protection
- Suitable eye protection: goggles.

Hand protection
- Wear suitable gloves.
  - Suitable material: NBR (Nitrile rubber)
  - Breakthrough time (maximum wearing time): 480 min

Skin protection
- Use of protective clothing.

Respiratory protection
- In case of inadequate ventilation wear respiratory protection.
  - Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace.

Environmental exposure controls
- Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid (pasty)</td>
</tr>
<tr>
<td>Colour</td>
<td>Trade name/designation</td>
</tr>
<tr>
<td>Odour</td>
<td>like: ester</td>
</tr>
<tr>
<td>pH-Value</td>
<td>not determined</td>
</tr>
</tbody>
</table>
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
Viscosity / dynamic: not determined
Viscosity / kinematic: not determined
Vapour density: not determined
Evaporation rate: not determined

9.2. Other information
Solid content: 49.4 %
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
No known hazardous reactions.

10.4. Conditions to avoid
No information available.

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.

<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</td>
<td>mg/kg</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE</td>
<td>mg/kg</td>
<td>1100</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-dioxao-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
Suspected of damaging fertility or the unborn child. (Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.

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. 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.

SECTION 14: Transport information

Land transport (ADG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

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

National regulatory information

Additional information

AICS
2-dimethylaminoethyl methacrylate: Yes.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide: Yes.
Camphorquinone: Yes.
Ditrimethylolpropane Tetraacrylate: Yes.
Titanium dioxide: Yes.

SUSPM
7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers): No
2-dimethylaminoethyl methacrylate: No
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide: No
Camphorquinone: No  
Ditrimethylolpropane Tetraacrylate: No  
Titanium dioxide: No  

SECTION 16: Other information

Abbreviations and acronyms
- ACGIH: American Conference of Governmental Industrial Hygienists
- ADG: Australian Dangerous Goods
- AICS: Australian Inventory of Chemical Substances
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- CAS: Chemical Abstracts Service
- STEL: Short-term exposure limit
- TWA: time-weighted average
- TI: Technical Instructions
- DGR: Dangerous Goods Regulations
- UN: United Nations
- ATE: Acute toxicity estimate
- LC50: Lethal concentration, 50%
- LD50: Lethal dose, 50%
- 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
- MARPOL: International Convention for the Prevention of Marine Pollution from Ships
- IBC: Intermediate Bulk Container
- VOC: Volatile Organic Compounds
- SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons

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.)