# 1. Identification

**Product identifier**  
VITA VM LC OPAQUE

**Recommended use of the chemical and restrictions on use**

- **Use of the substance/mixture**  
  Use as laboratory reagent

**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  
- **Emergency phone number:** +49-(0)761-19240

**Further Information**

- **medical device**

# 2. Hazard(s) identification

**Classification of the chemical**

UN-GHS (ST/SG/AC.10/11/Rev.6)  
This mixture is not classified as hazardous in accordance with UN-GHS (Rev. 6).

**Label elements**

- **Hazards not otherwise classified**  
  No information available.

# 3. Composition/information on ingredients

**Mixtures**

- **Chemical characterization**  
  Substance, organic  
  Product/Substance is inorganic. Mixtures

# 4. First-aid measures

**Description of first aid measures**

- **After inhalation**  
  Provide fresh air.

- **After contact with skin**  
  Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

- **After contact with eyes**  
  Rinse immediately carefully and thoroughly with eye-bath or water.

- **After ingestion**  
  Rinse mouth immediately and drink plenty of water.

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

No information available.

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

Treat symptomatically.

# 5. Fire-fighting measures
Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical
Non-flammable.

Special protective equipment and precautions for fire-fighters
In case of fire: Wear self-contained breathing apparatus.

Additional information
Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid generation of dust. Do not breathe dust.

Environmental precautions
Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up
Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

7. Handling and storage

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.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed.

Advice on storage compatibility
No special measures are necessary.

8. Exposure controls/personal protection

Control parameters

Exposure limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>f/cc</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td></td>
<td></td>
<td>15</td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Total dust</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td></td>
<td></td>
<td>10</td>
<td>TWA (8 h)</td>
<td>ACGIH-2016</td>
</tr>
</tbody>
</table>

Exposure controls

Protective and hygiene measures
Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.
Eye/face protection
Wear eye/face protection.

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 Dermatril P NBR (Nitrile rubber)

Skin protection
Wear suitable protective clothing.

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

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state: solid</td>
</tr>
<tr>
<td>Color:</td>
</tr>
<tr>
<td>Odor: characteristic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH-Value: not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Changes in the physical state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing point:</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
</tr>
<tr>
<td>Flash point: &gt; 250 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid:</td>
</tr>
<tr>
<td>Gas:</td>
</tr>
<tr>
<td>Lower explosion limits:</td>
</tr>
<tr>
<td>Upper explosion limits:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Auto-ignition temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid: not determined</td>
</tr>
<tr>
<td>Gas: not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Decomposition temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Oxidizing properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not oxidizing.</td>
</tr>
<tr>
<td>Vapor pressure:</td>
</tr>
<tr>
<td>Density:</td>
</tr>
<tr>
<td>Water solubility:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility in other solvents</th>
</tr>
</thead>
<tbody>
<tr>
<td>not determined</td>
</tr>
<tr>
<td>Partition coefficient:</td>
</tr>
<tr>
<td>Vapor density:</td>
</tr>
<tr>
<td>Evaporation rate:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid content: 100</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

**Reactivity**
No hazardous reaction when handled and stored according to provisions.

**Chemical stability**
The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**
No known hazardous reactions.

**Conditions to avoid**
none

**Incompatible materials**
No information available.

**Hazardous decomposition products**
No known hazardous decomposition products.

11. Toxicological information

**Information on toxicological effects**

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

**Irritation and corrosivity**
Based on available data, the classification criteria are not met.

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

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

**Specific target organ toxicity (STOT) - single exposure**
Based on available data, the classification criteria are not met.

**Specific target organ toxicity (STOT) - repeated exposure**
Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.
Carcinogenicity (IARC): Titanium dioxide (CAS 13463-67-7) is listed in group 2B.
Carcinogenicity (NTP): No ingredient of this mixture is listed.

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

**Additional information on tests**
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

12. Ecological information

**Ecotoxicity**
The product is not: Ecotoxic.

**Persistence and degradability**
The product has not been tested.

**Bioaccumulative potential**
The product has not been tested.

**Mobility in soil**
The product has not been tested.
Other adverse effects
No information available.

Further information
Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Advice on disposal
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging
Completely emptied packages can be recycled.

14. Transport information

Marine transport (IMDG)

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

Air transport (ICAO-TI/IATA-DGR)

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

Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user
No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

15. Regulatory information

U.S. Regulations

State Regulations
Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)
This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Revision date: 16.02.2017
Revision No: 1

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
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
VITA Zahnfabrik H. Rauter GmbH & Co. KG

Safety Data Sheet

according to UN-GHS (ST/SG/AC.10/11/Rev.6)

VITA VM LC OPAQUE

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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%

Other data
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.)