1. Identification

**VITA VM LC PRE OPAQUE**

**Product identifier**

**Relevant identified uses of the substance or mixture and uses advised against**

**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 telephone number:** +49-(0)761-19240

**Further Information**

- medical device

2. Hazard identification

**Classification of the substance or mixture**

**WHMIS 2015**

- **Serious eye damage/eye irritation:** Eye Irrit. 2
- **Respiratory or skin sensitization:** Skin Sens. 1

**Label elements**

**WHMIS 2015**

- **Signal word:** Warning

**Pictograms:**

- ![Pictogram](image)

**Hazard statements**

- May cause an allergic skin reaction.
- Causes serious eye irritation.

**Precautionary statements**

- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Other hazards**

- No information available.

3. Composition/information on ingredients

**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-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)</td>
<td>15 - &lt; 40% (*)</td>
</tr>
<tr>
<td>94108-97-1</td>
<td>Ditrimethylolpropane Tetraacrylate</td>
<td>7 - &lt; 13% (*)</td>
</tr>
<tr>
<td>2867-47-2</td>
<td>2-dimethylaminoethyl methacrylate</td>
<td>0.1 - &lt; 1% (*)</td>
</tr>
</tbody>
</table>

(*) The actual concentration is withheld as a trade secret.

4. First-aid measures

**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. Wash with plenty of water.

**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.

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

**Most important symptoms and effects, whether acute or delayed**
No information available.

**Indication of 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 hazardous product**
Non-flammable.

**Special protective equipment and precautions for fire-fighters**
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.

6. Accidental release measures

**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.

**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
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.

Hints on joint storage
No special measures are necessary.

8. Exposure controls/Personal protection

Control parameters
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 Dermatril P Breakthrough time (maximum wearing time) 30 min NBR (Nitrile rubber)

Skin protection
Use of protective clothing.

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

9. Physical and chemical properties

Information on basic physical and chemical properties
Physical state:
Colour:

pH-Value: not determined

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

Flammability
- Solid: not determined
- Gas: not applicable

Explosive properties
- The product is not: Explosive.
- Lower explosive limits: not determined
- Upper explosive limits: not determined

Auto-ignition temperature
- Solid: not determined
- Gas: not determined

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

Solid content: 49.7 %

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.
### Chemical name and CAS No.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Route of exposure</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 serious eye irritation.**
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

### Sensitizing 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)*

### 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].

### 12. Ecological information

#### Ecotoxicity
- Harmful to aquatic life with long lasting effects.

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

### 13. Disposal considerations

#### 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
- Handle contaminated packages in the same way as the substance itself. Waste codes/waste designations according to EWC/AVV
14. Transport information

Marine transport (IMDG)

**UN number:** No dangerous good in sense of this transport regulation.

**United Nations 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.

**United Nations 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

15. Regulatory information

Canadian regulations

16. Other information

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
- **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
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.)