

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA VM CC LIQUID

Revision date: 09.02.2023

Product code: 027

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## 1. Identification

### Product identifier

VITA VM CC LIQUID

### 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  
Street: Spitalgasse 3  
Place: D-79713 Bad Säckingen  
Post-office box: 1338  
D-79704 Bad Säckingen  
Telephone: +49(0)7761-562-0  
e-mail: info@vita-zahnfabrik.com  
Contact person: regulatory affairs  
e-mail: info@vita-zahnfabrik.com  
Internet: www.vita-zahnfabrik.com  
Responsible Department: Regulatory Affairs

Telefax: +49(0)7761-562-299

### Emergency phone number:

+49-(0)761-19240

### Further Information

medical device

## 2. Hazard(s) identification

### Classification of the chemical

#### 29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 2  
Skin corrosion/irritation: Skin Irrit. 2  
Respiratory or skin sensitization: Skin Sens. 1  
Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)  
Specific target organ toxicity repeated or prolonged exposure: STOT RE 2

### Label elements

#### 29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



### Hazard statements

Highly flammable liquid and vapor  
Causes skin irritation  
May cause an allergic skin reaction  
May cause respiratory irritation  
May cause damage to organs through prolonged or repeated exposure

### Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not breathe dust/fume/gas/mist/vapors/spray.

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Wear protective gloves/protective clothing/eye protection/face protection.

Store in a well-ventilated place. Keep cool.

#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Hazardous components

| CAS No    | Components   | Quantity |
|-----------|--|----------|
| 80-62-6   | methyl methacrylate  | 77.32 %  |
| 97-90-5   | ethylene dimethacrylate  | 19.24 %  |
| 99-97-8   | N,N-dimethyl-p-toluidine   | 1.39 %   |
| 2440-22-4 | 2-(2H-benzotriazol-2-yl)-p-cresol  | 0.4 %    |
| 868-77-9  | 2-hydroxyethyl methacrylate  | 0.3968 % |
| 80-62-6   | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | 0.1984 % |

### 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. After contact with skin, wash immediately with plenty of water and soap.

##### **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, 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**

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

##### **Unsuitable extinguishing media**

Water.

#### Specific hazards arising from the chemical

Highly flammable. Vapors may form explosive mixtures with air.

#### Special protective equipment and precautions for fire-fighters

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

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#### Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/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

#### General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

### Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air.

#### Advice on general occupational hygiene

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.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

## 8. Exposure controls/personal protection

### Control parameters

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#### Exposure limits

| CAS No   | Substance                  | ppm | mg/m <sup>3</sup> | f/cc | Category  | Origin |
|----------|----------------------------|-----|-------------------|------|-----------|--------|
| 128-37-0 | 2,6-Di-tert-butyl-p-cresol | -   | 10                |      | TWA (8 h) | REL    |
| 80-62-6  | Methyl methacrylate        | 100 | 410               |      | TWA (8 h) | REL    |
|          |                            | 100 | 410               |      | TWA (8 h) | REL    |

#### Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear 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 Camatril, Butoject Breakthrough time: NBR (Nitrile rubber) 10 min Butyl caoutchouc (butyl rubber) 60 min

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

Provide adequate ventilation as well as local exhaustion at critical locations.

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state: Liquid  
 Color: colorless  
 Odor: characteristic

#### Changes in the physical state

Melting point/freezing point: not determined  
 Boiling point or initial boiling point and boiling range: 93 °C  
 Flash point: <12 °C

#### Flammability

Solid/liquid: not applicable  
 Gas: not applicable

#### Explosive properties

The product is not: Explosive.

Lower explosion limits: 2,1 vol. %  
 Upper explosion limits: 12,5 vol. %

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|  |                |
|--|----------------|
| Auto-ignition temperature:             | 430 °C         |
| <b>Self-ignition temperature</b>       |                |
| Solid:                                 | not applicable |
| Gas:                                   | not applicable |
| Decomposition temperature:             | not determined |
| pH-Value:                              | not determined |
| Water solubility:                      | No             |
| <b>Solubility in other solvents</b>    |                |
| not determined                         |                |
| Partition coefficient n-octanol/water: | not determined |
| Vapor pressure:                        | <=1100 hPa     |
| (at 50 °C)                             |                |
| Vapor pressure:                        | 64 hPa         |
| (at 50 °C)                             |                |
| Density:                               | not determined |
| Relative vapour density:               | not determined |

#### Other information

##### Information with regard to physical hazard classes

Oxidizing properties  
Not oxidising.

##### Other safety characteristics

Solid content: 0,0 %  
Evaporation rate: not determined

##### Further Information

## 10. Stability and reactivity

#### Reactivity

Highly flammable.

#### Chemical stability

The product is stable under storage at normal ambient temperatures.

#### Possibility of hazardous reactions

No known hazardous reactions.

#### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

#### 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.

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| CAS No    | Components   |                   |         |            |        |
|-----------|--|-------------------|---------|------------|--------|
|           | Exposure route   | Dose              | Species | Source     | Method |
| 80-62-6   | methyl methacrylate  |                   |         |            |        |
|           | dermal   | LD50 > 5000 mg/kg |         |            |        |
| 97-90-5   | ethylene dimethacrylate  |                   |         |            |        |
|           | dermal   | LD50 3300 mg/kg   |         |            |        |
| 99-97-8   | N,N-dimethyl-p-toluidine   |                   |         |            |        |
|           | oral   | ATE 100 mg/kg     |         |            |        |
|           | dermal   | ATE 300 mg/kg     |         |            |        |
|           | inhalation vapour  | ATE 3 mg/l        |         |            |        |
|           | inhalation dust/mist   | ATE 0.5 mg/l      |         |            |        |
| 2440-22-4 | 2-(2H-benzotriazol-2-yl)-p-cresol  |                   |         |            |        |
|           | dermal   | LD50 >2000 mg/kg  | Ratte   | Hersteller |        |
| 868-77-9  | 2-hydroxyethyl methacrylate  |                   |         |            |        |
|           | oral   | LD50 5050 mg/kg   | Rat     |            |        |
| 80-62-6   | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate |                   |         |            |        |
|           | dermal   | LD50 >5000 mg/kg  |         |            |        |

#### Irritation and corrosivity

Causes skin irritation

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitizing effects

May cause an allergic skin reaction (methyl methacrylate; ethylene dimethacrylate; 2-(2H-benzotriazol-2-yl)-p-cresol; 2-hydroxyethyl methacrylate; methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation (methyl methacrylate)

#### Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure (N,N-dimethyl-p-toluidine)

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Methyl methacrylate (CAS 80-62-6) is listed in group 3. N,N-Dimethyl-p-toluidine (CAS 99-97-8) is listed in group 2B. Methyl methacrylate (CAS 80-62-6) is listed in group 3. Butylated hydroxytoluene (BHT) (CAS 128-37-0) is listed in group 3.

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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## 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.

### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 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**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## 14. Transport information

### **Marine transport (IMDG)**

|   |   |
|---|---|
| <b><u>UN number or ID number:</u></b>     | UN 1247                                 |
| <b><u>UN proper shipping name:</u></b>    | METHYL METHACRYLATE MONOMER, STABILIZED |
| <b><u>Transport hazard class(es):</u></b> | 3                                       |
| <b><u>Packing group:</u></b>              | II                                      |
| Hazard label:                             | 3                                       |



|                     |          |
|---------------------|----------|
| Special Provisions: | 386      |
| Limited quantity:   | 1 L      |
| Excepted quantity:  | E2       |
| EmS:                | F-E, S-D |

### **Air transport (ICAO-TI/IATA-DGR)**

|   |   |
|---|---|
| <b><u>UN number or ID number:</u></b>     | UN 1247                                 |
| <b><u>UN proper shipping name:</u></b>    | METHYL METHACRYLATE MONOMER, STABILIZED |
| <b><u>Transport hazard class(es):</u></b> | 3                                       |
| <b><u>Packing group:</u></b>              | II                                      |
| Hazard label:                             | 3                                       |

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|  |      |      |
|--|------|------|
| Special Provisions:                    | A209 |      |
| Limited quantity Passenger:            | 1 L  |      |
| Passenger LQ:                          | Y341 |      |
| Excepted quantity:                     | E2   |      |
| IATA-packing instructions - Passenger: |      | 353  |
| IATA-max. quantity - Passenger:        |      | 5 L  |
| IATA-packing instructions - Cargo:     |      | 364  |
| IATA-max. quantity - Cargo:            |      | 60 L |

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

Warning: Combustible liquid.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

### U.S. Regulations

#### **National regulatory information**

SARA Section 304 CERCLA:

Methyl methacrylate (80-62-6): Reportable quantity = 1,000 (454) lbs. (kg)

SARA Section 311/312 Hazards:

Methyl methacrylate (80-62-6): Fire hazard, Immediate (acute) health hazard

ethylene dimethacrylate (97-90-5): Immediate (acute) health hazard

N,N-dimethyl-p-toluidine (99-97-8): Immediate (acute) health hazard, Delayed (chronic) health hazard

2-(2H-benzotriazol-2-yl)-p-cresol (2440-22-4): Immediate (acute) health hazard

2-hydroxyethyl methacrylate (868-77-9): Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Methyl methacrylate (80-62-6): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Methyl methacrylate (80-62-6), Methyl methacrylate (80-62-6)

### State Regulations

#### **Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

WARNING: This product can expose you to chemicals including N,N-Dimethyl-p-toluidine (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## 16. Other information

### **Changes**

Revision date:

Revision No: 4

This data sheet contains changes from the previous version in section(s): 14.

### **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



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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  
(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  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Other data

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.)*