

Safety Data Sheet

according to 29 CFR 1910.1200(g)

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 12.08.2019

Product code: 218

Page 1 of 8

1. Identification

Product identifier

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

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

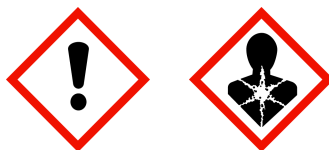
Classification of the chemical

29 CFR Part 1910.1200

Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Respiratory or skin sensitization: Skin Sens. 1
Reproductive toxicity: Repr. 2

Label elements

29 CFR Part 1910.1200

Signal word: Warning**Pictograms:**

Hazard statements

Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
Suspected of damaging fertility or the unborn child

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Safety Data Sheet

according to 29 CFR 1910.1200(g)

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 12.08.2019

Product code: 218

Page 2 of 8

Hazardous components

CAS No	Components	Quantity
72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)	19.36 %
94108-97-1	Ditrimethylolpropane Tetraacrylate	6.79 %
2867-47-2	2-dimethylaminoethyl methacrylate	6.098 %
10373-78-1	Camphorquinone	4.53 %
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	2.71 %

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 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

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

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/fume/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.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 12.08.2019

Product code: 218

Page 3 of 8

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

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 limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
13463-67-7	Titanium dioxide Total dust	-	15		TWA (8 h)	PEL

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 exhaust at critical locations. Technical ventilation of workplace

Safety Data Sheet

according to 29 CFR 1910.1200(g)

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 12.08.2019

Product code: 218

Page 4 of 8

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:

Color:

pH-Value:

not determined

Changes in the physical state

Melting point/freezing point:

not determined

Initial boiling point and boiling range:

?

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.

Vapor pressure:
(at 50 °C)

<=1100 hPa

Density:

not determined

Water solubility:

No

Solubility in other solvents

not determined

Partition coefficient:

not determined

Vapor density:

not determined

Evaporation rate:

not determined

Other information

Solid content:

49,4 %

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/none

Safety Data Sheet

according to 29 CFR 1910.1200(g)

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 12.08.2019

Product code: 218

Page 5 of 8

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.

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
2867-47-2	2-dimethylaminoethyl methacrylate				
	oral	ATE mg/kg	500		
	dermal	ATE mg/kg	1100		

Irritation and corrosivity

Causes skin irritation
Causes serious eye irritation

Sensitizing effects

May cause an allergic skin reaction
(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)

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.

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 (IARC): Titanium dioxide (CAS 13463-67-7) is listed in group 2B.

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.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 12.08.2019

Product code: 218

Page 6 of 8

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. Waste codes/waste designations according to EWC/AVV

14. Transport information

US DOT 49 CFR 172.101

<u>UN/ID number:</u>	UN 3243
<u>Proper shipping name:</u>	SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
<u>Transport hazard class(es):</u>	6.1
<u>Packing group:</u>	II
Hazard label:	6.1



Marine transport (IMDG)

<u>UN number:</u>	UN 3243
<u>UN proper shipping name:</u>	SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
<u>Transport hazard class(es):</u>	6.1
<u>Packing group:</u>	II
Hazard label:	6.1



Special Provisions:	217, 274
Limited quantity:	500 g
Excepted quantity:	E4
EmS:	F-A, S-A

Air transport (ICAO-TI/IATA-DGR)

<u>UN number:</u>	UN 3243
<u>UN proper shipping name:</u>	SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
<u>Transport hazard class(es):</u>	6.1
<u>Packing group:</u>	II
Hazard label:	6.1



Special Provisions:	A50
Limited quantity Passenger:	1 kg

Safety Data Sheet

according to 29 CFR 1910.1200(g)

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 12.08.2019

Product code: 218

Page 7 of 8

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

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

National regulatory information

SARA Section 311/312 Hazards:

- 7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers) (72869-86-4): Immediate (acute) health hazard
- Ditrimethylolpropane Tetraacrylate (94108-97-1): Immediate (acute) health hazard
- 2-dimethylaminoethyl methacrylate (2867-47-2): Immediate (acute) health hazard
- Camphorquinone (10373-78-1): Immediate (acute) health hazard
- Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8): Immediate (acute) health hazard

State Regulations

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

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Revision date: 12.08.2019

Revision No: 2

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%

Safety Data Sheet

according to 29 CFR 1910.1200(g)

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 12.08.2019

Product code: 218

Page 8 of 8

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>

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.)