

# Safety Data Sheet

according to WHMIS

## VITA VM LC OPAQUE LIQUID

Revision date: 28.02.2017

Product code: 186-CA

Page 1 of 7

### 1. Identification

#### Product identifier

VITA VM LC OPAQUE LIQUID

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

#### Details of the supplier of the safety data sheet

### 2. Hazard identification

#### Classification of the substance or mixture

##### WHMIS 2015

Hazard categories:

Flammable liquid: 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

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

#### Label elements

##### WHMIS 2015

Signal word: Danger

Pictograms:



#### Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

#### Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Store in a well-ventilated place.

Keep container tightly closed.

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

#### Other hazards

No information available.

### 3. Composition/information on ingredients

#### Mixtures

# Safety Data Sheet

according to WHMIS

## VITA VM LC OPAQUE LIQUID

Revision date: 28.02.2017

Product code: 186-CA

Page 2 of 7

### Hazardous components

CAS No	Chemical name	Quantity
97-90-5	ethylene dimethacrylate	55 - < 60 %
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	20 - < 25 %
2867-47-2	2-dimethylaminoethyl methacrylate	1 - < 5 %
10373-78-1	Camphorquinone	1 - < 5 %

### 4. First-aid measures

#### Description of first aid measures

##### **After inhalation**

Provide fresh air. Medical treatment necessary.

##### **After contact with skin**

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. 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.

#### Indication of 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 hazardous product

Highly flammable. Vapours can 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.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

#### Methods and material for containment and cleaning up

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

# Safety Data Sheet

according to WHMIS

## VITA VM LC OPAQUE LIQUID

Revision date: 28.02.2017

Product code: 186-CA

Page 3 of 7

### 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

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

#### Advice on protection against fire and explosion

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

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Advice on storage compatibility

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

## 8. Exposure controls/Personal protection

### Control parameters

#### Exposure limits (ACGIH)

CAS No	Chemical name	ppm	mg/m <sup>3</sup>	F/ml	Category	Origin
80-62-6	Methyl methacrylate	50			TWA (8 h)	ACGIH-2016
		100			STEL (15 min)	ACGIH-2016

### Exposure controls



#### Appropriate engineering controls

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

#### 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 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 Vitoject Breakthrough time (maximum wearing time) 30 min FKM (fluoro rubber)

# Safety Data Sheet

according to WHMIS

## VITA VM LC OPAQUE LIQUID

Revision date: 28.02.2017

Product code: 186-CA

Page 4 of 7

### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

### Respiratory protection

Provide adequate ventilation as well as local exhaust at critical locations. Technical ventilation of workplace

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: liquid  
Colour: light yellow  
Odour: characteristic

### Test method

pH-Value: not determined

### Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: 101 °C

Flash point: 10 °C

### Flammability

Solid: not applicable

Gas: not applicable

Lower explosive limits: 2,1 vol. %

Upper explosive limits: 12,5 vol. %

### Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

### Oxidizing properties

Not oxidizing.

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

### Other information

Solid content: 0,0 %

## 10. Stability and reactivity

### Conditions to avoid

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

# Safety Data Sheet

according to WHMIS

## VITA VM LC OPAQUE LIQUID

Revision date: 28.02.2017

Product code: 186-CA

Page 5 of 7

### 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	Chemical name				
	Route of exposure	Dose	Species	Source	Method
97-90-5	ethylene dimethacrylate				
	dermal	LD50 mg/kg	3300		
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate				
	dermal	LD50 mg/kg	>5000		
2867-47-2	2-dimethylaminoethyl methacrylate				
	oral	ATE mg/kg	500		
	dermal	ATE mg/kg	1100		

#### 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. (ethylene dimethacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate; 2-dimethylaminoethyl methacrylate)

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

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

#### STOT-single exposure

May cause respiratory irritation. (ethylene dimethacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)

#### 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

This mixture is classified as hazardous according to regulation (EC) No. 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.

# Safety Data Sheet

according to WHMIS

## VITA VM LC OPAQUE LIQUID

Revision date: 28.02.2017

Product code: 186-CA

Page 6 of 7

### 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

#### **Advice on disposal**

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.

## 14. Transport information

### Marine transport (IMDG)

<b><u>UN number:</u></b>	UN 1247
<b><u>United Nations 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



Marine pollutant:	Nein
EmS:	F-E,S-D

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

<b><u>UN number:</u></b>	UN 1247
<b><u>United Nations 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



### Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	no
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## 15. Regulatory information

### Canadian regulations

## 16. Other information

# Safety Data Sheet

according to WHMIS

## VITA VM LC OPAQUE LIQUID

Revision date: 28.02.2017

Product code: 186-CA

Page 7 of 7

### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*