

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VITA VM OPAQUE FLUID

Revision date: 23.02.2017

Product code: 168-CLP

Page 1 of 8

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

VITA VM OPAQUE FLUID

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

#### Use of the substance/mixture

Use as laboratory reagent

### 1.3. 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

### 1.4. Emergency telephone

+49-(0)761-19240

#### number:

#### Further Information

Use as laboratory reagent

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

ethyl alcohol

Sodium hydroxide; caustic soda

Signal word: Danger

#### Pictograms:



#### Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

#### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P310 Immediately call a POISON CENTER/doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VITA VM OPAQUE FLUID

Revision date: 23.02.2017

Product code: 168-CLP

Page 2 of 8

present and easy to do. Continue rinsing.

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

| CAS No    | Chemical name                                                   |              |                  | Quantity  |
|-----------|-----------------------------------------------------------------|--------------|------------------|-----------|
|           | EC No                                                           | Index No     | REACH No         |           |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP] |              |                  |           |
| 64-17-5   | ethyl alcohol                                                   |              |                  | 1 - < 5 % |
|           | 200-578-6                                                       | 603-002-00-5 | 01-2119457610-43 |           |
|           | Flam. Liq. 2; Eye Irrit. 2; H225 H319                           |              |                  |           |
| 1310-73-2 | Sodium hydroxide; caustic soda                                  |              |                  | < 1 %     |
|           | 215-185-5                                                       | 011-002-00-6 |                  |           |
|           | Skin Corr. 1A; H314                                             |              |                  |           |

Full text of H and EUH statements: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

##### 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. If skin irritation occurs: Get medical advice/attention.

##### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VITA VM OPAQUE FLUID

Revision date: 23.02.2017

Product code: 168-CLP

Page 3 of 8

#### 5.3. Advice for firefighters

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.

### SECTION 6: Accidental release measures

#### 6.1. 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.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. 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.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. 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

No special fire protection measures are necessary.

#### 7.2. 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. Unsuitable container/equipment material: Metal.

##### Advice on storage compatibility

No special measures are necessary.

#### 7.3. Specific end use(s)

Use as laboratory reagent

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

| CAS No    | Substance        | ppm  | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|-----------|------------------|------|-------------------|-----------|---------------|--------|
| 64-17-5   | Ethanol          | 1000 | 1920              |           | TWA (8 h)     | WEL    |
|           |                  | -    | -                 |           | STEL (15 min) | WEL    |
| 1310-73-2 | Sodium hydroxide | -    | -                 |           | TWA (8 h)     | WEL    |
|           |                  | -    | 2                 |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VITA VM OPAQUE FLUID

Revision date: 23.02.2017

Product code: 168-CLP

Page 4 of 8



#### 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

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 Dermatrill PBreakthrough time (maximum wearing time) 480 NBR (Nitrile rubber)

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Provide adequate ventilation as well as local exhaust at critical locations. Technical ventilation of workplace

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                |
|-----------------|----------------|
| Physical state: | liquid         |
| Colour:         | colourless     |
| Odour:          | characteristic |

|           | Test method |
|-----------|-------------|
| pH-Value: | 12,7        |

#### Changes in the physical state

|                                          |                |
|------------------------------------------|----------------|
| Melting point:                           | not determined |
| Initial boiling point and boiling range: | 100 °C         |
| Pour point:                              | NBN 52014      |
| Flash point:                             | ?              |

#### Flammability

|                         |                |
|-------------------------|----------------|
| Solid:                  | not applicable |
| Gas:                    | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

#### Auto-ignition temperature

|                            |                |
|----------------------------|----------------|
| Solid:                     | not applicable |
| Gas:                       | not applicable |
| Decomposition temperature: | not determined |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VITA VM OPAQUE FLUID

Revision date: 23.02.2017

Product code: 168-CLP

Page 5 of 8

#### Oxidizing properties

Not oxidizing.

Vapour pressure:

<=1100 hPa

(at 50 °C)

Density:

1,00000 g/cm³

#### Solubility in other solvents

not determined

Partition coefficient:

not determined

Vapour density:

not determined

Evaporation rate:

not determined

#### 9.2. Other information

Solid content:

0,0 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Corrosive to metals. Possibility of hazardous reactions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Peroxide, Oxidising agent.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

Metal. Keep away from: Acid, Oxidising agent, Peroxide.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

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

| CAS No    | Chemical name                  |               |         |        |        |
|-----------|--------------------------------|---------------|---------|--------|--------|
|           | Exposure route                 | Dose          | Species | Source | Method |
| 64-17-5   | ethyl alcohol                  |               |         |        |        |
|           | dermal                         | LD50<br>mg/kg | 7060    |        |        |
| 1310-73-2 | Sodium hydroxide; caustic soda |               |         |        |        |
|           | dermal                         | LD50<br>mg/kg | 2000    |        |        |

##### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye irritation.

##### Sensitising effects

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

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VITA VM OPAQUE FLUID

Revision date: 23.02.2017

Product code: 168-CLP

Page 6 of 8

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

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

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No    | Chemical name                  |              |           |                                 |        |        |
|-----------|--------------------------------|--------------|-----------|---------------------------------|--------|--------|
|           | Aquatic toxicity               | Dose         | [h]   [d] | Species                         | Source | Method |
| 1310-73-2 | Sodium hydroxide; caustic soda |              |           |                                 |        |        |
|           | Acute fish toxicity            | LC50<br>mg/l | 45,4      | 96 h<br>Onchorhynchus<br>mykiss |        |        |

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. 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

Wash with plenty of water. Completely emptied packages can be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

|                                          |                            |
|------------------------------------------|----------------------------|
| <b>14.1. UN number:</b>                  | UN 1824                    |
| <b>14.2. UN proper shipping name:</b>    | SODIUM HYDROXIDE, SOLUTION |
| <b>14.3. Transport hazard class(es):</b> | 8                          |
| <b>14.4. Packing group:</b>              | II                         |
| Hazard label:                            | 8                          |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VITA VM OPAQUE FLUID

Revision date: 23.02.2017

Product code: 168-CLP

Page 7 of 8



Classification code: C5  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 80  
 Tunnel restriction code: E

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 1824  
**14.2. UN proper shipping name:** SODIUM HYDROXIDE, SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Classification code: C5  
 Limited quantity: 1 L  
 Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number:** UN 1824  
**14.2. UN proper shipping name:** SODIUM HYDROXIDE, SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Special Provisions: -  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-A, S-B

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

**14.1. UN number:** UN 1824  
**14.2. UN proper shipping name:** SODIUM HYDROXIDE, SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Special Provisions: A3 A803  
 Limited quantity Passenger: 0.5 L  
 Passenger LQ: Y840  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 851

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VITA VM OPAQUE FLUID

Revision date: 23.02.2017

Product code: 168-CLP

Page 8 of 8

|                                    |      |
|------------------------------------|------|
| IATA-max. quantity - Passenger:    | 1 L  |
| IATA-packing instructions - Cargo: | 855  |
| IATA-max. quantity - Cargo:        | 30 L |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

Warning: strongly corrosive.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### National regulatory information

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Employment restrictions:       | Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). |
| Water contaminating class (D): | 1 - slightly water contaminating                                                                                  |

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 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%

#### Relevant H and EUH statements (number and full text)

|      |                                          |
|------|------------------------------------------|
| H225 | Highly flammable liquid and vapour.      |
| H290 | May be corrosive to metals.              |
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation.           |

#### Further Information

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 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.)*