1. Identification

**Product identifier**

VITA VM 9

CAS No: 66402-68-4

**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

e-mail: info@vita-zahnfabrik.com

Internet: www.vita-zahnfabrik.com

Emergency telephone number: +49-(0)7761-562-0

**Further Information**

medical device

2. Hazard identification

**Classification of the substance or mixture**

WHMIS 2015

This substance is not classified as hazardous in accordance with WHMIS 2015.

**Label elements**

No information available.

3. Composition/information on ingredients

**Substances**

Chemical characterization

Ceramic

**Hazardous components**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>66402-68-4</td>
<td>ceramics materials and frits</td>
<td>80 - 100% (*)</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.

- **After contact with skin**
  Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

- **After contact with eyes**
  Rinse immediately carefully and thoroughly with eye-bath or water.

- **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
In case of fire: Wear self-contained breathing apparatus.

Additional information
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
Avoid dust formation. Do not breathe dust.

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
Personal protection equipment: 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 controls

Protective and hygiene measures
Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.
**Eye/face protection**
- Wear eye protection/face protection.

**Hand protection**
- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. @0NBR (Nitrile rubber) 02.B008235 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

**Skin protection**
- Use of protective clothing.

**Respiratory protection**
- Provide adequate ventilation as well as local exhaust at critical locations. Technical ventilation of workplace

## 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state:</strong></td>
<td>solid</td>
</tr>
<tr>
<td><strong>Colour:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Odour:</strong></td>
<td>odourless</td>
</tr>
<tr>
<td><strong>pH-Value:</strong></td>
<td>not determined</td>
</tr>
</tbody>
</table>

**Changes in the physical state**
- **Melting point:** not determined
- **Initial boiling point and boiling range:** X
- **Flash point:** X

**Flammability**
- **Solid:** not determined
- **Gas:** not determined

**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 applicable

**Decomposition temperature:** not determined

**Oxidizing properties**
- Not oxidising.

**Vapour pressure:** <=1100 hPa
**Density:** 2,40000 g/cm³
**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:** 100,0 %
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.

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

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

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 substance is classified as not 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.

Mobility in soil
The product has not been tested.

Other adverse effects
No information available.

Further information
Avoid release to the environment.
13. Disposal considerations

**Waste treatment methods**

**Disposal recommendations**
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.

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%
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.