1. Identification

Product identifier

VITA TITANKERAMIK MARGIN

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
Fax: +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

UN-GHS (ST/SG/AC.10/11/Rev.6)

This mixture is not classified as hazardous in accordance with UN-GHS (Rev. 6).

Label elements

Hazard symbols

No information available.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Ceramic

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>66402-88-4</td>
<td>ceramics materials and frits</td>
<td>99.3 %</td>
</tr>
</tbody>
</table>

4. First-aid measures

Description of first aid measures

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, 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
  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 generation of dust. 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.

Further information on handling
  Technical ventilation of workplace Provide adequate ventilation as well as local exhaustion at critical locations.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
  Keep container tightly closed.

Advice on storage compatibility
  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 or drink.

Eye/face protection
  Dust protection eye glasses

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 Dermatril P NBR (Nitrile rubber)

Skin protection
- Wear suitable protective clothing.

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

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odor</td>
<td></td>
</tr>
<tr>
<td>pH-Value</td>
<td>not determined</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>770 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>?</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td></td>
</tr>
<tr>
<td>Not oxidizing</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>&lt;=1100 hPa</td>
</tr>
<tr>
<td>(at 50 °C)</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>2,40000 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>not determined</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not determined</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Solid content</td>
<td>99,90 %</td>
</tr>
</tbody>
</table>

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.

**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.

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

**Additional information on tests**
This mixture is classified as not hazardous according to regulation (EC) 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**

**Advice on disposal**
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
codes/waste designations according to EWC/AVV

Contaminated packaging
Wash with plenty of water. Completely emptied packages can be recycled. Waste codes/waste designations according to EWC/AVV

14. Transport information

Marine transport (IMDG)

UN number:
No dangerous good in sense of this transport regulation.

UN 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.

UN 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

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

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)
This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Revision date: 09.02.2017

Revision No: 1

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%

Other data
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.

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