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

1.1. Product identifier

VITA Firing Paste

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

Use of the substance/mixture

Auxiliary for manufacture of dental products Fixing agent (mordant)

1.3. Details of the supplier of the safety data sheet

Manufacturer
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

Supplier
Company name: Company Name
Street: Street
Place: 79704 Town
Telephone: Phone
Telefax: Telefax
e-mail: email
Contact person: Contact person
Internet: url

1.4. Emergency telephone number:

+49-(0)761-19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

UN-GHS (Rev.3)

Hazard categories:
Skin corrosion/irritation: Skin Irrit. 2
Carcinogenicity: Carc. 1
Hazard Statements:
Causes skin irritation.
May cause cancer.

2.2. Label elements

UN-GHS (Rev.3)

Hazard components for labelling
Alumino-silicate fibre, dioxosilane

Signal word: Danger

Pictograms:

Hazard statements

H315 Causes skin irritation.
H350 May cause cancer.
Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of waste according to applicable legislation.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>142844-00-6</td>
<td>Aluminosilicate fibre, dioxosilane</td>
<td>10 - &lt; 15 %</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
When in doubt or if symptoms are observed, get medical advice.

After inhalation
Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. If experiencing respiratory symptoms: Call a doctor.

After contact with skin
Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

After contact with eyes
Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion
Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. Medical treatment necessary.

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


6.2. Environmental precautions

No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

6.3. Methods and material for containment and cleaning up

Take up dust-free and set down dust-free. Take up mechanically. 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
Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion
Usual measures for fire prevention.

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 exhaustion at critical locations.

Hints on joint storage
No information available.

7.3. Specific end use(s)

Auxiliary for manufacture of dental products Fixing agent (mordant)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values
Value:
Aluminosilicate fibre, dioxosilane (Refractory Ceramic Fibres (RCF) (h), Special Purpose Glass Fibres (i) and High Biopersistence MMVF (l))
0,5 f/mL (respirable) TWA
2 mg/m³ (inhalable dust) (j) TWA
(j) Where almost all the airborne material is fibrous MMVF, an inhalable dust exposure standard of 2 mg/m³ (8 hour TWA) must also be applied to minimise mechanical irritation from largely non-respirable fibre. This inhalable standard is not to take precedence over the respirable fibre standard, where applicable. For those
applications where MMVF is combined with other material such that the proportion of respirable fibres is extremely low or is difficult to measure because of the larger portion of non-fibrous MMVF material, it is appropriate to apply the exposure standard for nuisance dusts of 10 mg/m³, measured as inhalable dust (8 hour TWA).

Source: Workplace exposure standards for airborne contaminants, Publication date: 16 December 2019

8.2. Exposure controls

Appropriate engineering controls
Provide adequate ventilation as well as local exhaustion at critical locations. Dust must be exhausted directly at the point of origin.

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. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

Eye/face protection
Wear eye protection/face protection.

Hand protection
Wear suitable gloves.
Suitable material: NBR (Nitrile rubber)
Breakthrough time (maximum wearing time) 480 min

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.

Skin protection
Use of protective clothing.

Respiratory protection
In case of inadequate ventilation wear respiratory protection. Avoid dust formation.

Environmental exposure controls
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid (pasty)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>blue</td>
</tr>
<tr>
<td>Odour:</td>
<td>none</td>
</tr>
</tbody>
</table>

pH-Value: not determined

Changes in the physical state

<table>
<thead>
<tr>
<th>Melting point:</th>
<th>1752 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point:</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Solid: not determined</td>
</tr>
</tbody>
</table>
Gas: not applicable

**Explosive properties**
The product is not: Explosive.

Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined

**Auto-ignition temperature**
Solid: not determined
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**
Not oxidising.

Vapour pressure: <= 1100 hPa
(at 50 °C)

Density: 2.5 - 2.72 g/cm³

Water solubility: No

**Solubility in other solvents**
not determined

Partition coefficient: not determined
Viscosity / dynamic: not determined
Viscosity / kinematic: not determined
Vapour density: not determined
Evaporation rate: not determined

**9.2. Other information**

Solid content: 50 %
Odour threshold: not determined

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**
No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**
The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**
No known hazardous reactions.

**10.4. Conditions to avoid**
No information available.

**10.5. Incompatible materials**
No information available.

**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.

Irritation and corrosivity
Causes skin irritation.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

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

Carcinogenic/mutagenic/toxic effects for reproduction
May cause cancer. (Aluminosilicate fibre, dioxosilane)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: 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.

SECTION 12: Ecological information

12.1. Toxicity
The product is not: Ecotoxic.

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. Other adverse effects
No information available.

Further information
Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal recommendations
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging
Handle contaminated packages in the same way as the substance itself. Dampen dust and place it in a properly closed receptacle and dispose of it safely.

SECTION 14: Transport information

Land transport (ADG)
14.1. UN number:
No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:
No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):
No dangerous good in sense of this transport regulation.

14.4. Packing group:
No dangerous good in sense of this transport regulation.

Marine transport (IMDG)
<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number:</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td><strong>Air transport (ICAO-TI/IATA-DGR)</strong></td>
<td></td>
</tr>
<tr>
<td>14.1. UN number:</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>No dangerous good in sense of this transport regulation.</td>
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<td>14.3. Transport hazard class(es):</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>ENVIRONMENTALLY HAZARDOUS: no</td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>No information available.</td>
</tr>
<tr>
<td><strong>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</strong></td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**SECTION 15: Regulatory information**

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

National regulatory information

Additional information

- AICS: Aluminosilicate fibre, dioxosilane: No
- SUSPM: Aluminosilicate fibre, dioxosilane: No

**SECTION 16: Other information**

**Abbreviations and acronyms**

- ACGIH: American Conference of Governmental Industrial Hygienists
- ADG: Australian Dangerous Goods
- AICS: Australian Inventory of Chemical Substances
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- CAS: Chemical Abstracts Service
- STEL: Short-term exposure limit
- TWA: time-weighted average
- TI: Technical Instructions
- DGR: Dangerous Goods Regulations
- UN: United Nations
- ATE: Acute toxicity estimate
- LC50: Lethal concentration, 50%
- LD50: Lethal dose, 50%
- LL50: Lethal loading, 50%
- EL50: Effect loading, 50%
- EC50: Effective Concentration 50%
- ErC50: Effective Concentration 50%, growth rate
- NOEC: No Observed Effect Concentration
Further Information

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.)