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

1.1. Product identifier

VITA AMBRIA INVEST P

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. Use as laboratory reagent.

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
Telephone: info@vita-zahnfabrik.com
Internet: www.vita-zahnfabrik.com

Supplier
Company name: Company Name
Street: Street
Place: 79704 Town
Telephone: Phone
Telephone: 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:
Carcinogenicity: Carc. 1
Specific target organ toxicity - repeated exposure: STOT RE 1
Hazard Statements:
May cause cancer.
Causes damage to organs through prolonged or repeated exposure.

2.2. Label elements

UN-GHS (Rev.3)

Hazard components for labelling
Quartz
Cristobalite

Signal word: Danger

Pictograms: 

Hazard statements
H350 May cause cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of waste according to applicable legislation.

2.3. Other hazards

Decomposition temperature: 200°C, Hazardous decomposition products Ammonia (NH₃).

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>14808-60-7</td>
<td>Quartz</td>
<td>60 - &lt; 65 %</td>
</tr>
<tr>
<td>14464-46-1</td>
<td>Cristobalite</td>
<td>20 - &lt; 25 %</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 experiencing respiratory symptoms: Call a doctor.

After contact with skin
Wash with plenty of soap and water. Avoid contact with skin and eyes. If skin irritation or rash occurs: Get medical advice/attention.

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

After ingestion
Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Observe risk of aspiration if vomiting occurs. Immediately call a doctor.

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. Hazardous decomposition products: Ammonia (NH₃).
5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. 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
Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Use appropriate respiratory protection. Remove persons to safety.

6.2. Environmental precautions
Do not allow to enter into surface water or drains.

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.

Hints on joint storage
Do not store together with: Water.

Further information on storage conditions
Protect from moisture.

7.3. Specific end use(s)
Auxiliary for manufacture of dental products. Use as laboratory reagent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Additional advice on limit values
Value:
Mgnesium oxide (fume)
10 mg/m³ TWA

Cristobalite (respirable dust)
0,1 mg/m³ TWA
Quartz (respirable dust)
0,1 mg/m³ TWA

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

### 8.2. Exposure controls

#### Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Protective and hygiene measures
Remove contaminated, saturated clothing immediately. 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. 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)
- 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. Filtering device with filter or ventilator filtering device of type: P 3.

#### Environmental exposure controls
Do not allow to enter into surface water or drains.

### SECTION 9: Physical and chemical properties

#### 9.1. 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>solid: Powder</td>
</tr>
<tr>
<td>Colour</td>
<td>various</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>pH-Value</td>
<td>5</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Melting point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>1500 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>Solid: Non-flammable.</td>
</tr>
<tr>
<td></td>
<td>Gas: not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>The product is not: Explosive.</td>
</tr>
</tbody>
</table>

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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: not determined
Density: not determined
Bulk density: 1100 - 1200 kg/m³
Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

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: 100 %
   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
   Decomposition temperature: 200°C Hazardous decomposition products Ammonia (NH3)

10.4. Conditions to avoid
   Humidity.

10.5. Incompatible materials
   Water.

10.6. Hazardous decomposition products
   Ammonia (NH3)

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
Based on available data, the classification criteria are not met.
May cause respiratory irritation. Slightly irritant but not relevant for classification. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.
Hazardous decomposition products Ammonia (NH₃).

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

Carcinogenic/mutagenic/toxic effects for reproduction
May cause cancer. (Quartz; Cristobalite)
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
Causes damage to organs through prolonged or repeated exposure. (Quartz; Cristobalite)

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.

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)

14.1. UN number:
No dangerous good in sense of this transport regulation.
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Section 14: Transport information

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.

Air transport (ICAO-TI/IATA-DGR)

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.
14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

Section 15: Regulatory information

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

National regulatory information

Additional information

AICS
Quartz: Yes.
Cristobalite: Yes.
Magnesium oxide: Yes.

SUSPM
Quartz: No.
Cristobalite: No.
Magnesium oxide: 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%
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.)