1. Identification

**Product identifier**
VITA AMBRIA INVEST P

**Recommended use of the chemical and restrictions on use**
*Use of the substance/mixture*
Auxiliary for manufacture of dental products Use as laboratory reagent

**Details of the supplier of the safety data sheet**

<table>
<thead>
<tr>
<th>Company name:</th>
<th>VITA Zahnfabrik H.Rauter GmbH &amp; Co.KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post-office box:</td>
<td>1338 79704 Bad Säckingen</td>
</tr>
<tr>
<td>Telephone:</td>
<td>+49(0)7761-562-0</td>
</tr>
<tr>
<td>Telefax:</td>
<td>+49(0)7761-562-299</td>
</tr>
<tr>
<td>e-mail:</td>
<td><a href="mailto:info@vita-zahnfabrik.com">info@vita-zahnfabrik.com</a></td>
</tr>
<tr>
<td>Internet:</td>
<td><a href="http://www.vita-zahnfabrik.com">www.vita-zahnfabrik.com</a></td>
</tr>
</tbody>
</table>

**Emergency phone number:**
+49-(0)761-19240

2. Hazard(s) identification

**Classification of the chemical**

29 CFR Part 1910.1200
Specific target organ toxicity repeated or prolonged exposure: STOT RE 1

**Label elements**

29 CFR Part 1910.1200

<table>
<thead>
<tr>
<th>Signal word:</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pictograms:</strong></td>
<td>![Pictogram]</td>
</tr>
</tbody>
</table>

**Hazard statements**
Causes damage to organs through prolonged or repeated exposure

**Precautionary statements**
Do not breathe dust/fume/gas/mist/vapors/spray.
Do not eat, drink or smoke when using this product.
Get medical advice/attention if you feel unwell.

**Hazards not otherwise classified**
Decomposition temperature: 200°C Hazardous decomposition products Ammonia

3. Composition/information on ingredients

**Mixtures**

**Hazardous components**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>Quartz</td>
<td>60 %</td>
</tr>
</tbody>
</table>

4. First-aid measures

**Description of first aid measures**
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
Suppress gases/vapours/mists with water spray jet. 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
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.

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 (PPE): see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling
If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust.

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 limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>f/cc</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309-48-4</td>
<td>Magnesium oxide fume Total Particulate</td>
<td>-</td>
<td>15</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline (as respirable dust)</td>
<td>-</td>
<td>0.05</td>
<td></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
<tr>
<td>14464-46-1</td>
<td>Silica, crystalline cristobalite, respirable dust</td>
<td>(Z-3)</td>
<td>(Z-3)</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline quartz, total dust</td>
<td>-</td>
<td>(Z-3)</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
</tbody>
</table>

Exposure controls

Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust. In case of inadequate ventilation wear respiratory protection. P 3

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.

Eye/face protection
Wear eye protection/face protection.

Skin protection
Use of protective clothing.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: solid: Powder
Color:               

pH-Value: 5

Changes in the physical state
Melting point/freezing point: not determined
Initial boiling point and boiling range: 1500 °C
Flash point: not applicable

Flammability
Solid: Non-flammable.
Gas: not applicable
The product is not: Explosive.

**Explosive properties**
- Lower explosion limits: not determined
- Upper explosion limits: not determined

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

**Oxidizing properties**
- Not oxidising.
- Vapor 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

**Other information**
- Solid content: 100 %

### 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**
- Decomposition temperature: 200°C Hazardous decomposition products Ammonia

**Conditions to avoid**
- none/none

**Incompatible materials**
- Humidity Water spray

**Hazardous decomposition products**
- Ammonia

### 11. Toxicological information

**Information on toxicological effects**

**Irritation and corrosivity**
- 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

**Carcinogenicity (OSHA):**
- No ingredient of this mixture is listed.
Silica dust, crystalline, in the form of quartz or cristobalite (CAS 14808-60-7) is listed in group 1.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): 

Additional information on tests
The mixture is classified as 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
Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

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 dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No dangerous good in sense of this transport regulation.
15. Regulatory information

U.S. Regulations

National regulatory information
SARA Section 311/312 Hazards:
Quartz (14808-60-7): Delayed (chronic) health hazard

State Regulations
Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)
This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Revision date: 31.07.2019
Revision No: 1

Abbreviations and acronyms
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
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
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
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(REuropean Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(ACcord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

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