1. Identification

Product identifier
- VITAFOL H Retention crystals

Further trade names
- VITAFOL H Haftkristalle, Retention Crystals, Cristaux rétentifs, Cristales adesivos, Cristalli ritentivi

CAS No: 7631-86-9

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
- e-mail: info@vita-zahnfabrik.com
- Internet: www.vita-zahnfabrik.com

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

2. Hazard(s) identification

Classification of the chemical
- 29 CFR Part 1910.1200
  This substance is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

Label elements
- Hazards not otherwise classified
  No information available.

3. Composition/information on ingredients

Substances
- Chemical characterization
  Product/Substance is inorganic.

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Do not breathe dust.

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

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
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 limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>t/ccc</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>7631-86-9</td>
<td>Silica, amorphous</td>
<td>-</td>
<td>6</td>
<td></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
</tbody>
</table>

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
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. 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
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

- Physical state: solid
- Color: translucent
- Odor: odorless
- pH-Value: not determined

Changes in the physical state
- Melting point/freezing point: not determined
- Initial boiling point and boiling range: > 999 °C
- Flash point: X

Flammability
- Solid: not determined
- Gas: not applicable

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: <=1100 hPa
(at 50 °C)
Density: 2,20000 g/cm³
Water solubility: No

Solubility in other solvents
not determined
Partition coefficient: not determined
Vapor 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/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.

Carcinogenicity (OSHA): Not listed.
Carcinogenicity (IARC): Silica, amorphous (CAS 7631-86-9) is listed in group 3.
Carcinogenicity (NTP): Not listed.

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
Dispose of waste according to applicable legislation.
14. Transport information

Marine transport (IMDG)

| UN number: | No dangerous good in sense of this transport regulation. |
| 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. |
| 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 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: 01.08.2019
Revision No: 2

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.