1. Identification

Product identifier
VITAFOL H Paste

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
Telefax: +49(0)7761-562-299
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
Serious eye damage/eye irritation: Eye Irrit. 2A

Label elements

29 CFR Part 1910.1200
Signal word: Warning
Pictograms:

Hazard statements
Causes serious eye irritation

Precautionary statements
Wash hands thoroughly after handling.
Protective gloves/protective clothing/eye protection/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified
No information available.

3. Composition/information on ingredients

Mixtures

Chemical characterization
Paste, Substance, organic, Film former
Mixture of polymers/elastomers without hazards for human health or environment

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>14464-46-1</td>
<td>Cristobalite</td>
<td>0 %</td>
</tr>
</tbody>
</table>
4. First-aid measures

**Description of first aid measures**

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

**After inhalation**
- Provide fresh air.

**After contact with skin**
- Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**
- Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**
- Observe risk of aspiration if vomiting occurs. 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**
- Use water spray/stream to protect personnel and to cool endangered containers. 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**
- Use personal protection equipment.

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

**Methods and material for containment and cleaning up**
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). 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>f/cc</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>14464-46-1</td>
<td>Silica, crystalline cristobalite, respirable dust</td>
<td>(Z-3)</td>
<td>(Z-3)</td>
<td>TWA (8 h)</td>
<td>PEL</td>
<td></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, drink, smoke, sniff.

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. Recommended glove articles KCL Butoject Butyl caoutchouc (butyl rubber) Breakthrough time (maximum wearing time) 60 min

Skin protection
Use of protective clothing. Wear suitable protective clothing.

Respiratory protection
In case of inadequate ventilation wear 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>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>light gray</td>
</tr>
<tr>
<td>Odor:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

pH-Value: not determined

Changes in the physical state

Melting point/freezing point: not determined

Initial boiling point and boiling range: not determined

Sublimation point: not determined

Softening point: not determined

Pour point: not determined
Flash point: 250 °C

Flammability
   Solid: not applicable
   Gas: not applicable

Explosive properties
   The product is not: Explosive.

Ignition temperature: >450 °C

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

Decomposition temperature: > 200 °C

Oxidizing properties
   Not oxidising.

Vapor pressure: not determined
   (at 50 °C)

Vapor pressure: not determined

Density (at 23 °C): 1.25 g/cm³

Bulk density: not determined

Water solubility: No OECD 116

Solubility in other solvents
   not determined

Partition coefficient: not determined

Viscosity / dynamic:
   (at 23 °C) 25000 mPa·s

Vapor density: not determined

Evaporation rate: not determined

Other information

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
   The product is stable under storage at normal ambient temperatures. Decomposition takes place from temperatures above: 150 °C May form hazardous decomposition products when exposed to high temperatures. Formaldehyde

11. Toxicological information

Information on toxicological effects
Acute toxicity
Based on available data, the classification criteria are not met.

Irritation and corrosivity
Causes serious eye irritation
Skin corrosion/irritation: 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): No ingredient of this mixture is listed.
Carcinogenicity (IARC): No ingredient of this mixture is listed.
Carcinogenicity (NTP): No ingredient of this mixture is listed.

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

Additional information on tests
The mixture 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
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging
Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

14. Transport information

US DOT 49 CFR 172.101
Proper shipping name: No dangerous good in sense of this transport regulation.
Marine transport (IMDG)
Safety Data Sheet

VITAFOL H Paste

Product code: 058

Revision date: 17.04.2020

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 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: 17.04.2020
Revision No: 3

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%
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
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
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
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)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
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 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.)