1 Identification

- **Product identifier**
  - **Trade name:** Servoflex Trio SuperTec grau/weiss
  - **Application of the substance / the mixture:** Tile adhesive
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Kiesel Bauchemie GmbH & Co. KG
    Wolf-Hirth-Str. 2
    D-73730 Esslingen
    Germany
  - **E-Mail:**
    - info.canada@kiesel.com
    - info.usa@kiesel.com
  - **Information department:** Laboratory, departments of enviromental protection and labor protection
  - **Emergency telephone number:** ChemTel Expert Assistance Hotline 800-255-2824

2 Hazard identification

- **Classification of the substance or mixture**
  - GHS08 Health hazard
    - Carcinogenicity - Category 1B: H350 May cause cancer.
  - GHS05 Corrosion
    - Serious Eye Damage - Category 1: H318 Causes serious eye damage.
  - GHS07
    - Skin Irritation - Category 2: H315 Causes skin irritation.
    - Specific Target Organ Toxicity - Single Exposure - Category 3: H335 May cause respiratory irritation.
    - Combustible Dusts - Category 1: May form combustible dust concentrations in air.

- **Label elements**
  - **GHS label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms:**
    - GHS05
    - GHS07
    - GHS08
  - **Signal word:** Danger
  - **Hazard-determining components of labeling:** Portlandzement-Klinker (chromatarm TRGS 613)
  - **Hazard statements:** Causes skin irritation.

(Contd. on page 2)
Safety Data Sheet  
according to HPR, Schedule 1  

Printing date 03/31/2020  
Reviewed on 03/31/2020  

Trade name: Servoflex Trio SuperTec grau/weiss

(Contd. of page 1)

Causes serious eye damage.  
May cause cancer.  
May cause respiratory irritation.  
May form combustible dust concentrations in air.  
Keep out of reach of children.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a poison center/doctor.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see on this label).  
Take off contaminated clothing and wash it before reuse.  
If skin irritation occurs: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:  
· NFPA ratings (scale 0 - 4) Health = 0  
Fire = 1  
Reactivity = 0  

· HMIS-ratings (scale 0 - 4) Health = 0  
Fire = 1  
Reactivity = 0

3 Composition/Information on ingredients

· Composition/Information on ingredients  
· Chemical characterization: Mixtures

· Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 14808-60-7 Quarz</th>
<th>30-60% w/w *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity - Category 1B, H350</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 65997-15-1 Portlandzement-Klinker (chromatarm TRGS 613)</th>
<th>15-40% w/w *</th>
</tr>
</thead>
</table>
| Serious Eye Damage - Category 1, H318  
Skin Irritation - Category 2, H315; Specific Target Organ Toxicity - Single Exposure - Category 3, H335 |

* Actual concentration ranges are withheld as a trade secret.  
(Contd. on page 3)
4 First-aid measures

- Description of first aid measures
  - General information: If you feel unwell, seek medical advice. Immediately remove any clothing soiled by the product.
  - After inhalation: Inhalation of dusts causes irritation and swelling of respiratory ducts. In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: Rinse out mouth and then drink plenty of water. Seek immediate medical advice.
  - Information for doctor:
    - Most important symptoms and effects, both acute and delayed: No further relevant information available.
    - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: The product itself does not burn. Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- Protective equipment: Wear non-circulation breathing equipment and chemical-protective clothing. Do not inhale explosion gases or fire fumes.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Avoid formation of dust.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: Pick up mechanically. Use neutralizing agent. Dispose contaminated material as waste according to item 13.
Trade name: Servoflex Trio SuperTec grau/weiss

7 Handling and storage

- Handling:
  - Precautions for safe handling: Provide suction extractors if dust is formed. Thorough dedusting. Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin and eyes. Do not breathe dust. Breathing apparatus only if aerosol or dust is formed. Protected above to humidity.

- Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities

- Storage:
  - Requirements to be met by storerooms and receptacles: Protect from water.
  - Information about storage in one common storage facility: Store away from foodstuffs.
  - Further information about storage conditions: Keep receptacle tightly sealed.

- Specific end use(s): No further relevant information available.

8 Exposure controls/ Personal protection

- Additional information about design of technical systems: No further data; see item 7.

- Control parameters

- Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS: 65997-15-1 Portlandzement-Klinker (chromatarm TRGS 613)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL (Canada)</td>
</tr>
<tr>
<td>EV (Canada)</td>
</tr>
<tr>
<td>PEL (USA)</td>
</tr>
<tr>
<td>REL (USA)</td>
</tr>
<tr>
<td>TLV (USA)</td>
</tr>
</tbody>
</table>
51.0.2. Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls
· Personal protective equipment:
· General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.

· Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Breathing apparatus only if aerosol or dust is formed. Suitable respiratory protection at low concentrations or short-term exposure: Particle filter EN 143 type P2 (medium retention capacity (solid and liquid particles of harmful substances))

· Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves Rubber gloves
· Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Tightly sealed goggles.
· Body protection: long sleeved clothing

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9 Physical and chemical properties

· Information on basic physical and chemical properties
· Appearance:
  · Form: Powder
  · Color: According to product specification
· Odor: Odorless
· Odor threshold: Not determined.
· pH-value at 20 °C: 12

· Change in condition
  · Melting point/Melting range: undetermined
  · Boiling point/Boiling range: nicht anwendbar

· Flash point: Not applicable.
· Flammability (solid, gaseous): Not determined.
· Decomposition temperature: Not determined.
10 Stability and reactivity

- Reactivity
  No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions
  No dangerous reactions known.
- Conditions to avoid
  No further relevant information available.
- Incompatible materials:
  No further relevant information available.
- Hazardous decomposition products:
  No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
  - Primary irritant effect:
    - on the skin: Irritant to skin and mucous membranes.
    - on the eye: Strong irritant with the danger of severe eye injury.
51.0.2 Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

- Irritant

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
    - Bioaccumulative potential: No further relevant information available.
    - Mobility in soil: No further relevant information available.
  - Additional ecological information:
    - General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
      Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
      Must not reach bodies of water or drainage ditch undiluted or unneutralized.
      Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Disposal in accordance with official regulations
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
### 14 Transport information

- **UN-Number**
  - DOT/TDG, ADR, ADN, IMDG, IATA: Void
- **UN proper shipping name**
  - DOT/TDG, ADR, ADN, IMDG, IATA: Void
- **Transport hazard class(es)**
  - DOT, ADR, ADN, IMDG, IATA Void
  - Class: Void
- **Packing group**
  - DOT/TDG, ADR, IMDG, IATA: Void
- **Environmental hazards:**
  - Marine pollutant: No
- **Special precautions for user**
  - Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.
- **Transport/Additional information:**
  - Not dangerous according to the above specifications.
- **UN "Model Regulation":**
  - Void

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
  - **Section 355 (extremely hazardous substances):** None of the ingredient is listed.
  - **Section 313 (Specific toxic chemical listings):** None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):**
  - CAS: 65997-15-1 Portlandzement-Klinker (chromatarm TRGS 613)
  - CAS: 65997-17-3 Kalk-Natron-Silikatglas
  - CAS: 544-17-2 Calciumformiat
  - Hydroxyethylcellulose
- **MAK (German Maximum Workplace Concentration)**
  - CAS: 14808-60-7 Quarz: 1
- **GHS label elements**
  - The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**
  - GHS05, GHS07, GHS08
Safety Data Sheet
according to HPR, Schedule 1

Printing date 03/31/2020 Reviewed on 03/31/2020

Trade name: Servoflex Trio SuperTec grau/weiss

- Signal word: Danger
- Hazard-determining components of labeling:
  - Portlandzement-Klinker (chromatarm TRGS 613)
  - Quarz
- Hazard statements:
  - Causes skin irritation.
  - Causes serious eye damage.
  - May cause cancer.
  - May cause respiratory irritation.
  - May form combustible dust concentrations in air.
- Precautionary statements:
  - Keep out of reach of children.
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Wash thoroughly after handling.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If on skin: Wash with plenty of water.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Immediately call a poison center/doctor.
  - IF exposed or concerned: Get medical advice/attention.
  - Specific treatment (see on this label).
  - Take off contaminated clothing and wash it before reuse.
  - If skin irritation occurs: Get medical advice/attention.
  - Store in a well-ventilated place. Keep container tightly closed.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

To the best of our knowledge, the information contained in this MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this MSDS relate only to the specific material designated herein. We do not assume any liability for the use, or reliance in this information, nor do we guarantee its accuracy or completeness.

- Relevant phrases:
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H335 May cause respiratory irritation.
  - H350 May cause cancer.

- Date of the latest revision of the safety data sheet: 03/31/2020 / 19

- Abbreviations and acronyms:
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association

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Trade name: Servoflex Trio SuperTec grau/weiss

EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.