1 Identification

- **Product identifier**
  - **Trade name:** Servoperl Royal und Servoperl Royal schnell
  - **Application of the substance / the mixture:** Sealing mortar

- **Details of the supplier of the safety data sheet**
  - **Information department:** Laboratory, departments of environmental 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 1A 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.
    - 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).

- **Signal word** Danger

- **Hazard-determining components of labeling:** Quarz Portlandzement-Klinker (chromatarm TRGS 613) Titandioxid

- **Hazard statements**
  - Causes skin irritation.
  - Causes serious eye damage.
  - May cause cancer.
  - May form combustible dust concentrations in air.

- **Precautionary statements**
  - Keep out of reach of children.
  - Do not handle until all safety precautions have been read and understood.
  - Wash thoroughly after handling.
  - Wear protective gloves/protective clothing/eye protection/face protection.

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If on skin: Wash with plenty of water.
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.
Take off contaminated clothing and wash it before reuse.
Store locked up.
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:
  CAS: 14808-60-7 Quarzsand
  Carcinogenicity - Category 1A, H350
  30-60% w/w *

  Tonerdeschmelzzement
  Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319
  10-30% w/w *

  CAS: 65997-15-1 Portlandzement-Klinker (chromatarm TRGS 613)
  Serious Eye Damage - Category 1, H318
  Skin Irritation - Category 2, H315; Specific Target Organ Toxicity - Single Exposure - Category 3, H335
  1-5% w/w *

  CAS: 13463-67-7 Titanoxid
  Serious Eye Damage - Category 1, H318
  Skin Irritation - Category 2, H315; Specific Target Organ Toxicity - Single Exposure - Category 3, H335
  1-5% w/w *

  CAS: 21645-51-2 Aluminiumhydroxid
  Carcinogenicity – Category 2, H351
  1-5% w/w *

· Additional information: For the wording of the listed hazard phrases refer to section 16.

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

· Description of first aid measures
  · General information: Immediately remove any clothing soiled by the product.
  · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  · After skin contact: Immediately wash with water and soap and rinse thoroughly.
Trade name: Servoperl Royal und Servoperl Royal schnell

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed
  - Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

5 Fire-fighting measures

- Extinguishing media: 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: 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: Not required.
- 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.
- Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- Handling: Thorough dedusting.
- Precautions for safe handling: 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.
Safety Data Sheet
according to HPR, Schedule 1

Printing date 03/26/2020
Reviewed on 03/26/2020

Trade name: Servoperl Royal und Servoperl Royal schnell

(Contd. of page 3)

- 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: No special requirements.
  - Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s): No further relevant information available.

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### 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</th>
<th>Long-term value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7 Quarz</td>
<td>0.025 mg/m³</td>
<td>EL (Canada)</td>
</tr>
<tr>
<td>ACGIH A2; IARC 1</td>
<td>Long-term value: 0.10* mg/m³</td>
<td>EV (Canada)</td>
</tr>
<tr>
<td>65997-15-1 Portlandzement-Klinker (chromatarm TRGS 613)</td>
<td>1 mg/m³</td>
<td>EL (Canada)</td>
</tr>
<tr>
<td>Long-term value: 10(D) mg/m³</td>
<td>EV (Canada)</td>
<td></td>
</tr>
<tr>
<td>13463-67-7 Titandioxid</td>
<td>10* 3** mg/m³</td>
<td>EL (Canada)</td>
</tr>
<tr>
<td>Long-term value: 10* 3** mg/m³</td>
<td>REL (USA)</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 10* 5** mg/m³</td>
<td>REL (USA)</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 50 mppcf or 15* 5** mg/m³</td>
<td>PEL (USA)</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 1* mg/m³</td>
<td>TLV (USA)</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 1* mg/m³</td>
<td>TLV (USA)</td>
<td></td>
</tr>
</tbody>
</table>

(CSgas: 14808-60-7 Quarz | 0.025 mg/m³ | EL (Canada) |
| ACGIH A2; IARC 1 | Long-term value: 0.10* mg/m³ | EV (Canada) |
| 65997-15-1 Portlandzement-Klinker (chromatarm TRGS 613) | 1 mg/m³ | EL (Canada) |
| Long-term value: 10(D) mg/m³ | EV (Canada) |
| 13463-67-7 Titandioxid | 10* 3** mg/m³ | EL (Canada) |
| Long-term value: 10* 3** mg/m³ | REL (USA) |
| Long-term value: 10* 5** mg/m³ | REL (USA) |
| Long-term value: 50 mppcf or 15* 5** mg/m³ | PEL (USA) |
| Long-term value: 1* mg/m³ | TLV (USA) |
| Long-term value: 1* mg/m³ | TLV (USA) |

(CSgas: 14808-60-7 Quarz | 0.025 mg/m³ | EL (Canada) |
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| Long-term value: 10* 3** mg/m³ | REL (USA) |
| Long-term value: 10* 5** mg/m³ | REL (USA) |
| Long-term value: 50 mppcf or 15* 5** mg/m³ | PEL (USA) |
| Long-term value: 1* mg/m³ | TLV (USA) |
| Long-term value: 1* mg/m³ | TLV (USA) |
### Additional information:

The lists that were valid during the creation were used as basis.

### Exposure controls

- 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.
  - Store protective clothing separately.
  - Avoid contact with the skin.
  - Avoid contact with the eyes and skin.

- Breathing equipment:
  - Not necessary if room is well-ventilated.
  - 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.
## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **Appearance:**
    - **Form:** Powder
    - **Color:** According to product specification
    - **Odor:** Light
    - **Odor threshold:** Not determined.
  - **pH-value at 20 °C:** 11
  - **Change in condition**
    - **Melting point/Melting range:** undetermined
    - **Boiling point/Boiling range:** 2,230 °C nicht anwendbar
  - **Flash point:** Not applicable.
  - **Flammability (solid, gaseous):** Not determined.
  - **Decomposition temperature:** Not determined.
  - **AUTO IGNITION:** Not self igniting
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Explosion limits:**
    - **Lower:** Not determined.
    - **Upper:** Not determined.
  - **Vapor pressure:** Not applicable.
  - **Density at 20 °C:** 1.5 g/cm³
  - **Relative density**
    - Not determined.
  - **Vapor density**
    - Not applicable.
  - **Evaporation rate**
    - Not applicable.
  - **Solubility in / Miscibility with Water:** bindet hydraulisch ab
  - **Partition coefficient (n-octanol/water):** Not determined.
  - **Viscosity:**
    - **Dynamic:** Not applicable.
    - **Kinematic:** Not applicable.
  - **Solvent content:**
    - **VOC-Content** 0.00 %
    - **Solids content** 100.0 %
  - **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
50.1.5 · Chemical stability
· Thermal decomposition / conditions to be avoided: No decomposition if used 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:
     - LD/LC50 values that are relevant for classification:
       CAS: 13463-67-7 Titandioxid
       Oral LD50 >10,000 mg/kg (rat)
     - Primary irritant effect:
       - on the skin: Irritant to skin and mucous membranes.
       - on the eye: Strong irritant with the danger of severe eye injury.
       - Sensitization: No sensitizing effects known.
     - Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

   · Carcinogenic categories
     - IARC (International Agency for Research on Cancer)
       CAS: 14808-60-7 Quarz 1
       CAS: 13463-67-7 Titandioxid 2B
       CAS: 69012-64-2 Microsilica Pulver 3
       CAS: 14807-96-6 Talkum 3
     - NTP (National Toxicology Program)
       CAS: 14808-60-7 Quarz K

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.

(Contd. on page 8)
Trade name: Servoperl Royal und Servoperl Royal schnell

(Contd. of page 7)

- 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.

- 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 Must be forwarded for special treatment in accordance with local authority regulations, e.g. suitable incineration plant.
- Recommendation: Disposal in accordance with official regulations
- Uncleaned packagings: 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

(Contd. on page 9)
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):
  CAS: 554-13-2 Lithiumcarbonat
  CAS: 557-05-1 Zinkstearat

- TSCA (Toxic Substances Control Act):
  CAS: 65997-16-2 Tonerdeschmelzzement ACTIVE
  CAS: 14808-60-7 Quarz ACTIVE
  CAS: 65997-15-1 Portlandzement-Klinker (chromatarm TRGS 613) ACTIVE
  CAS: 13463-67-7 Titandioxid ACTIVE
  CAS: 21645-51-2 Aluminiumhydroxid ACTIVE
  CAS: 69012-64-2 Microsilica Pulver ACTIVE
  CAS: 14807-96-6 Talcum ACTIVE
  CAS: 1317-61-9 Eisenoxidschwarz 318 ACTIVE
  CAS: 497-19-8 Soda leicht, Natriumcarbonat ACTIVE
  CAS: 554-13-2 Lithiumcarbonat ACTIVE
  CAS: 557-05-1 Zinkstearat ACTIVE

- MAK (German Maximum Workplace Concentration)
  CAS: 14808-60-7 Quarz 1
  CAS: 13463-67-7 Titandioxid 3A
  CAS: 14807-96-6 Talcum 3B

- GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms
  GHS05 GHS08

- Signal word
  Danger

- Hazard-determining components of labeling:
  Quarz
  Portlandzement-Klinker (chromatarm TRGS 613)
  Titandioxid

- Hazard statements
  Causes skin irritation.
  Causes serious eye damage.
  May cause cancer.
  May form combustible dust concentrations in air.

- Precautionary statements
  Keep out of reach of children.
  Do not handle until all safety precautions have been read and understood.
Trade name: Servoperl Royal und Servoperl Royal schnell

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. 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. Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

- National regulations:
- Information about limitation of use: Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
- 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.


- Date of the latest revision of the safety data sheet: 03/26/2020 / 19

- Abbreviations and acronyms:
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - 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)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative

- Data compared to the previous version altered.