SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: Servoperl Royal und Servoperl Royal schnell

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use: SU21 Consumer uses: Private households / general public / consumers
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Kiesel Bauchemie GmbH & Co. KG
  Wolf-Hirth-Str. 2
  D-73730 Esslingen
  Tel.: +49(0)711/93134-0
  Fax.: +49(0)711/93143-140
  E-Mail: sida@kiesel.com

- Informing department: Laboratory, departments of environmental protection and labor protection

1.4 Emergency telephone number: Poison Information Center Freiburg Tel.: +49(0)761/19240 (24h German and English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  GHS05 corrosion
  Eye Dam. 1 H318 Causes serious eye damage.

- GHS07
  Skin Irrit. 2 H315 Causes skin irritation.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.

- Hazard pictograms
  GHS05

- Signal word
  Danger

- Hazard-determining components of labelling: Portland Cement
Hazard statements
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements
P102 Keep out of reach of children.
P280 Wear protective gloves / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
This mixture does not contain a substance considered to be persistent, bioaccumulative or toxic (PBT) becomes. This mixture does not contain a substance which is considered to be very persistent or very bioaccumulative (vPvB) (If not mentioned in section 3).

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 14808-60-7</th>
<th>Quartz (SiO2)</th>
<th>25-&lt;50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance with a Community workplace exposure limit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 65997-16-2</td>
<td>Calcium Aluminate Cement</td>
<td>10-&lt;25%</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315; Eye Irrit. 2, H319</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 14808-60-7</td>
<td>Quartz (SiO2)</td>
<td>2.5-&lt;10%</td>
</tr>
<tr>
<td>STOT RE 2, H373</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 65997-15-1</td>
<td>Portland Cement</td>
<td>23-&lt;10%</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2, H315; STOT SE 3, H335</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Immediately remove contaminated clothing.

After inhalation
In case of unconsciousness bring patient into stable side position for transport.

After skin contact
Instantly 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 doctor.
- After swallowing In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

*SECTION 5: Firefighting measures*

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

*SECTION 6: Accidental release measures*

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Collect mechanically. Use neutralising agent. Dispose of contaminated material as waste according to item 13.
- 6.4 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 information on disposal.

*SECTION 7: Handling and storage*

- 7.1 Precautions for safe handling Thorough dedusting. Do not leave the container standing open. Avoid contact with skin and eyes. Do not breathe dust.
SECTION 8: Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
  - Components with critical values that require monitoring at the workplace:
    - CAS: 14808-60-7 Quartz (SiO2)
    - BOELV Long-term value: 0.1* mg/m³
      *respirable fraction
  - Additional information: The lists that were valid during the compilation were used as basis.
- Exposure controls
  - Personal protective equipment
  - General protective and hygienic measures
    - Keep away from foodstuffs, beverages and food.
    - Instantly remove any soiled and impregnated garments.
    - Wash hands during breaks and at the end of the work.
    - Avoid contact with the skin.
    - Avoid contact with the eyes and skin.
  - Breathing equipment:
    - Not necessary if room is well-ventilated.
    - Breathing apparatus only if aerosol or dust is formed.
  - 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.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance:
  - Form: Powder
  - Colour: According to product specification
  - Smell: Light
  - Odour threshold: Not determined.

- pH-value at 20 °C: 11

- Change in condition
  - Melting point/freezing point: Not determined
  - Initial boiling point and boiling range: 2,230 °C
    - Not apply

- Flash point: Not applicable

- Inflammability (solid, gaseous): Not determined.

- Decomposition temperature: Not determined.

- Self-inflammability: Product is not selfigniting.

- Explosive properties: Product is not explosive.

- Critical values for explosion:
  - Lower: Not determined.
  - Upper: Not determined.

- Steam pressure: Not applicable.

- Density at 20 °C: 1.5 g/cm³
- Relative density: Not determined.
- Vapour density: Not applicable.
- Evaporation rate: Not applicable.

- Solubility in / Miscibility with
  - Water: is setting hydraulically

- Partition coefficient: n-octanol/water: Not determined.

- Viscosity:
  - dynamic: Not applicable.
  - kinematic: Not applicable.

- Solvent content:

- Solids content: 100.0 %

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
Safety data sheet
according to 1907/2006/EC, Article 31

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SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity: Based on available data, the classification criteria are not met.
  - Primary irritant effect: Causes skin irritation.
  - Serious eye damage/irritation: Causes serious eye damage.
  - Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

- Long-Term effects: Prolonged exposure by chronic inflammation in the airways may be caused by a high dust load. Prolonged and continued repeated inhalation of respirable crystalline silica dust can cause silicosis, a nodular connective tissue in the lungs. Silicosis is caused by deposition of respirable crystalline silica dust in the air sacs (alveoli). The effect of silica fume is a long-term effect and depends largely on the dust dose by the average dust concentration applied over a longer period (respirable fraction) is determined. A connection between inhalation exposure to respirable quartz dust or cristobalite and an increased risk of lung cancer was found in epidemiological studies.

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
  - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
  - Carcinogenicity: Based on available data, the classification criteria are not met.
  - Reproductive toxicity: Based on available data, the classification criteria are not met.
  - STOT-single exposure: Based on available data, the classification criteria are not met.
  - STOT-repeated exposure: Based on available data, the classification criteria are not met.
  - Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity: No further relevant information available.
- 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

(Contd. on page 7)
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

**12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**12.6 Other adverse effects**
No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  Must be forwarded for special treatment in accordance with local authority regulations, e.g. suitable incineration plant.
- **Recommendation**
  Disposal according to official regulations
- **Further Notes**
  Mix product residue with water, allow to harden, then dispose as Construction Waste.
- **Uncleaned packagings:**
  **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
  ADR, ADN, IMDG, IATA: Void
- **14.2 UN proper shipping name**
  ADR, ADN, IMDG, IATA: Void
- **14.3 Transport hazard class(es)**
  ADR, ADN, IMDG, IATA: Void
- **14.4 Packing group**
  ADR, IMDG, IATA: Void
- **14.5 Environmental hazards:**
  Marine pollutant: No
- **14.6 Special precautions for user**
  Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  Not applicable.
- **Transport/Additional information:**
  Not classified as dangerous in the meaning of transport regulations.
- **UN "Model Regulation":** Void
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I: None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. It does not constitute a legal warranty regulations. The delivery specifications are contained in the corresponding product sheet.

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 Harmonised 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 (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

* Data compared to the previous version altered.
* Comment

The information is based on our knowledge we do have so far. However it is not a confirmation of product features and does not establish contractual legal relationship. Use, operation and processing are the responsibility of the customer.