

Material Safety Data Sheet

according to 1907/2006/EC, Article 31




Printing date 02/13/2018



Reviewed on 01/25/2018

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**
- **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 Assiatance Hotline 800-255-2824

2 Hazard(s) 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 Dust **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 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.

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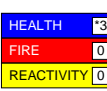
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- **Precautionary statements**

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.
 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.
- **Hazard description:**
- **WHMIS classification**

D2B - Toxic material causing other toxic effects







- **Classification system:**
- **NFPA ratings (scale 0 - 4)**


Health = 0
 Fire = 1
 Reactivity = 0
- **HMS-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	30-60% w/w
	 Carcinogenicity - Category 1A, H350	
	Tonerdeschmelzzement	10-30% w/w
	 Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319	
CAS: 65997-15-1	Portlandzement-Klinker (chromatarm TRGS 613)	1-5% w/w
	 Serious Eye Damage - Category 1, H318	
	 Skin Irritation - Category 2, H315; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	
CAS: 13463-67-7	Titandioxid	1-5% w/w
	 Carcinogenicity - Category 2, H351	
CAS: 21645-51-2	Aluminiumhydroxid	1-5% w/w

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· **Additional information:** *For the wording of the listed hazard phrases refer to section 16.* (Contd. of page 2)

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. Immediately rinse with water.*
- **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** *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** *Not required.*
- **Environmental precautions:** *No special measures required.*
- **Methods and material for containment and cleaning up:** *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.*

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See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Thorough dedusting.
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
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:** 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.

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:**

CAS: 14808-60-7 Quarz

EL (Canada) Long-term value: 0.025 mg/m³
ACGIH A2; IARC 1

EV (Canada) Long-term value: 0.10* mg/m³
*respirable fraction

PEL (USA) see Quartz listing

REL (USA) Long-term value: 0.05* mg/m³
*respirable dust; See Pocket Guide App. A

TLV (USA) Long-term value: 0.025* mg/m³
*as respirable fraction

CAS: 65997-15-1 Portlandzement-Klinker (chromatarm TRGS 613)

EL (Canada) Long-term value: 1 mg/m³
respirable

EV (Canada) Long-term value: 10(D) mg/m³
total dust

PEL (USA) Long-term value: 50 mppcf or 15* 5** mg/m³
*total dust **respirable fraction

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REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	Long-term value: 1* mg/m ³ E; *as respirable fraction
CAS: 13463-67-7 Titandioxid	
EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust; **respirable fraction; IARC 2B
EV (Canada)	Long-term value: 10 mg/m ³ total dust
PEL (USA)	Long-term value: 15* mg/m ³ *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC
CAS: 21645-51-2 Aluminiumhydroxid	
EL (Canada)	Long-term value: 10 mg/m ³
REL (USA)	Long-term value: 2 mg/m ³ as Al
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction

- **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.
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.*
- **Protection of hands:** *Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
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** *The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to*

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- Penetration time of glove material
 be checked prior to the application.
 Rubber gloves
- Eye protection:
 The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
 Safety glasses
 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
not apply
- 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: is setting hydraulically
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
 - Dynamic: Not applicable.
 - Kinematic: Not applicable.
- Solvent content:
 - Organic solvents: 0.0 %
 - VOC-Content: 0.00 %

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· **Other information** **No further relevant information available.**

10 Stability and reactivity

- **Reactivity** **No further relevant information available.**
- **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
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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** **No further relevant information available.**
- **Persistence and degradability** **No further relevant information available.**

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- **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.
- **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 according to official regulations**
- **Uncleaned packagings:**
- **Recommendation:** **Disposal must be made according to official regulations.**

14 Transport information

- | | |
|--|---|
| · UN-Number | |
| · DOT, TDG, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · DOT, TDG, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · DOT, TDG, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · DOT, TDG, 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. |

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· UN "Model Regulation":	Void
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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: 557-05-1 Zinkstearat

CAS: 554-13-2 Lithiumcarbonat

- TSCA (Toxic Substances Control Act):

CAS: 14808-60-7 Quarz

CAS: 65997-15-1 Portlandzement-Klinker (chromatarm TRGS 613)

CAS: 13463-67-7 Titandioxid

CAS: 21645-51-2 Aluminiumhydroxid

CAS: 69012-64-2 Microsilica Pulver

CAS: 14807-96-6 Talkum

CAS: 1317-61-9 Eisenoxidschwarz 318

CAS: 497-19-8 Soda leicht, Natriumcarbonat

CAS: 557-05-1 Zinkstearat

CAS: 554-13-2 Lithiumcarbonat

- MAK (German Maximum Workplace Concentration)

CAS: 14808-60-7 Quarz 1CAS: 13463-67-7 Titandioxid 3ACAS: 14807-96-6 Talkum 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.

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- **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.**
 - 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:**
- **Additional classification according to Decree on Hazardous Materials:**
- **Information about limitation of use:**
 - Carcinogenic hazardous material group III (dangerous).**
 - 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.

- **Relevant phrases**
 - H315 Causes skin irritation.**
 - H318 Causes serious eye damage.**
 - H319 Causes serious eye irritation.**
 - H335 May cause respiratory irritation.**
 - H350 May cause cancer.**
 - H351 Suspected of causing cancer.**

- **Date of preparation / last revision**
 - 02/13/2018 / 13**
- **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)**
 - WHMIS: Workplace Hazardous Materials Information System (Canada)**
 - VOC: Volatile Organic Compounds (USA, EU)**
 - LC50: Lethal concentration, 50 percent**

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

• * *Data compared to the
previous version altered.*

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