

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2015

Reviewed on 03/11/2015

1 Identification

- **Product identifier**
- **Trade name:** ServoLight
- **Relevant identified uses of the substance or mixture and uses advised against** none
- **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 environmental protection and labor protection
- **Emergency telephone number:** ChemTel Expert Assistance Hotline 800-255-2824

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

STOT SE 3 H335 May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R38-41: Irritating to skin. Risk of serious damage to eyes.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**
- **GHS label elements**
- **Hazard pictograms**

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



GHS05 GHS07 GHS08

- **Signal word**

Danger

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• **Hazard-determining components of labeling:**

Portland Cement
Quartz (SiO₂)
calcium diformate

• **Hazard statements**

Causes severe skin burns and eye damage.
May cause cancer.

• **Precautionary statements**

May cause respiratory irritation.
Keep out of reach of children.
Do not breathe dusts or mists.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If swallowed: Rinse mouth. Do NOT induce vomiting.
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

• **Other hazards**

• **Results of PBT and vPvB assessment**

• **PBT:**

Not applicable.

• **vPvB:**

Not applicable.

3 Composition/information on ingredients

• **Composition/Information on ingredients**

• **Chemical characterization: Mixtures**

• **Description:**

Mixtur of special cements and loading materials

• **Dangerous components:**

	Portland Cement	Xi R37/38-41 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335	50-100%
14808-60-7	Quartz (SiO ₂)	Carc. 1A, H350	2.5-<10%
544-17-2	calcium diformate	Xi R41 Acute Tox. 3, H331 Eye Dam. 1, H318	< 2.5%

• **Additional information:**

Have also a look to point 8 "Exposure controls and personalprotection"
For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

• **Description of first aid measures**

• **General information:**

If you feel unwell, seek medical advice.

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- **After inhalation:** *Do not breathe dust.
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.
Make patient vomit by him/herself.
The decision whether to provoke vomiting or not is to be taken by a physician.*
- **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.*
- **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** *Ensure adequate ventilation
Avoid formation of dust.
Respirator must be worn if exposed to dust.
Wear protective clothing.*
- **Environmental precautions:** *Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.*
- **Methods and material for containment and cleaning up:** *Pick up mechanically.*
- **Reference to other sections** *hardened after contact with water
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:**
- **Precautions for safe handling** *Keep out of the reach of children.
Prevent formation of dust.
Avoid contact with skin and eyes.
Do not breathe dust.
Breathing apparatus only if aerosol or dust is formed.
protected above to humidity*

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- **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:** *protected above to humidity in closing rooms*
- **Information about storage in one common storage facility:** *No incompatible products to be specially mentioned*
- **Further information about storage conditions:** *Keep away from food and drink.*
- **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:**

Portland Cement

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

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV Long-term value: 1* mg/m³
E; *as respirable fraction

14808-60-7 Quartz (SiO₂)

PEL see Quartz listing

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

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

- **Additional information:** * = total dust
The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Do not eat or drink while working.*
 - 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:**
 - Breathing apparatus only if aerosol or dust is formed.*
 - 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:**
 - Protective gloves*
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*
 - 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*

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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 be checked prior to the application.

- *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*

9 Physical and chemical properties

• *Information on basic physical and chemical properties*

• *General Information*

• *Appearance:*

Form: Solid

Color: Grey

• *Odor:* Characteristic

• *Odour threshold:* Not determined.

• *pH-value at 20 °C (68 °F):* 13

• *Change in condition*

Melting point/Melting range: 1450 °C (2642 °F) (Sinterb.)

Boiling point/Boiling range: not apply

• *Flash point:* Not applicable.

• *Flammability (solid, gaseous):* Not determined.

• *Ignition temperature:*

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:* Not determined.

• *Bulk density at 20 °C (68 °F):* 1300 kg/m³

• *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:*

Organic solvents: 0.0 g/l

• *Other information* The physical data are average values.

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10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *entrance of moisture
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 decomposition if stored and applied as directed.*
- **Hazardous decomposition products:** *none under normal use*

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

<i>544-17-2 calcium diformate</i>		
<i>Oral</i>	<i>LD50</i>	<i>3050 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50</i>	<i>> 2000 mg/kg (rat)</i>
<i>Inhalative</i>	<i>LC50/4 h</i>	<i>> 0.67 mg/l (rat)</i>
- **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.*
- **Experience with humans:** *If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.
The product contains cement. In combination with humidity the product provokes an alkaline reaction.
May cause eye/skin irritation.*
- **Additional toxicological information:** *According to concentration, aqueous solution causes irritations or burns of eyes, skin and mucous membranes.
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant*
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**

<i>14808-60-7</i>	<i>Quartz (SiO₂)</i>	<i>1</i>
<i>7631-86-9</i>	<i>silicon dioxide, chemically prepared</i>	<i>3</i>
- **NTP (National Toxicology Program)**

<i>14808-60-7</i>	<i>Quartz (SiO₂)</i>	<i>K</i>
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- **OSHA-Ca (Occupational Safety & Health Administration)**

<i>None of the ingredients is listed.</i>	
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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**

<i>544-17-2 calcium diformate</i>	
<i>EC50 (48h)</i>	<i>> 1000 mg/l (Dap)</i>

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- **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.*
- **Ecotoxicological effects:** *only by unintentional binding with much material and water is a highly pH-value possible*
- **Additional ecological information:**
- **General notes:** *Ecological injuries are not known or expected under normal use.
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.
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 according to official regulations*
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*
- **Recommended cleansing agent:** *Water, if necessary with cleansing agents.*

14 Transport information

- | | |
|--|--|
| • UN-Number | Void |
| • DOT, ADR, ADN, IMDG, IATA | Void |
| • UN proper shipping name | Void |
| • DOT, ADR, ADN, IMDG, IATA | Void |
| • Transport hazard class(es) | Void |
| • DOT, ADR, ADN, IMDG, IATA | Void |
| • Class | Void |
| • Packing group | Void |
| • DOT, ADR, IMDG, IATA | Void |
| • Environmental hazards: | No |
| • 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": | - |

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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):

None of the ingredients is listed.

- TSCA (Toxic Substances Control Act):

Portland Cement

65997-17-3 Kalk-Natron-Silikatglas

14808-60-7 Quartz (SiO₂)

544-17-2 calcium diformate

- Proposition 65

- Chemicals known to cause cancer:

14808-60-7 Quartz (SiO₂)

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Cancerogenity categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value established by ACGIH)

14808-60-7 Quartz (SiO₂)

A2

- MAK (German Maximum Workplace Concentration)

14808-60-7 Quartz (SiO₂)

1

- NIOSH-Ca (National Institute for Occupational Safety and Health)

14808-60-7 Quartz (SiO₂)

- 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:

Portland Cement
Quartz (SiO₂)
calcium diformate

- Hazard statements

Causes severe skin burns and eye damage.
May cause cancer.
May cause respiratory irritation.

- Precautionary statements

Keep out of reach of children.
Do not breathe dusts or mists.
Wear protective gloves/protective clothing/eye protection/face protection.

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IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- National regulations:
- Technical instructions (air):
- Class Share in % n.a.
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Chapters which have been revised from the previous issue are marked "**".

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

To the best of our knowledge, the information contained in this SDS 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 SDS 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.

- Department issuing SDS: Health protection and safety
- Date of preparation / last revision 03/11/2015 / 20
- 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
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - 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)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - Acute Tox. 3: Acute toxicity, Hazard Category 3
 - Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
 - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 - Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
 - Carc. 1A: Carcinogenicity, Hazard Category 1A
 - STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

- * Data compared to the previous version altered.