Safety Data Sheet
acc. to OSHA HCS

Date of issue: 10/23/2026 **Reviewed on 10/23/2026**

1 Identification

· **Product identifier**

· **Trade name:** Servoflex 5 Royal supertec
· **Other means of identification**
· **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@cemex.com
info.usa@cemex.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 1A H350 May cause cancer.



GHS05 Corrosion

Eye damage 1 H318 Causes serious eye damage.



GHS07

Skin irritation 2 H315 Causes skin irritation.
· **Additional information:** The full text of the classification and labeling elements mentioned is given in Section 16.

· **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:** Quarzsand
Portland Cement
· **Hazard statements** Causes skin irritation.
Causes serious eye damage.
May cause cancer.
· **Precautionary statements** Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

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Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Information pertaining to particular dangers for man and environment:**
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 3
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *3
Fire = 0
Reactivity = 0

· **Classification according to (d)(1)(ii) of § 1910.1200** The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· **Hazards not otherwise classified** There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

· **Composition/Information on ingredients** .
· **Chemical characterization: Mixtures**
· **Description:** Mixtur of special cements and loading materials

· **Dangerous components:**

CAS: 14808-60-7	Quarzsand Carcinogenicity 1A, H350	30-60%
CAS: 65997-16-2	Calcium Aluminate Cement Skin irritation 2, H315; Eye irritation 2A, H319	10-30%
CAS: 10034-76-1	Calciumsulfat-Halbhydrat	3-7%
CAS: 65997-15-1	Portland Cement Eye damage 1, H318 Skin irritation 2, H315; Specific target organ toxicity (single exposure) 3, H335	1-5%

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

4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.
If you feel unwell, seek medical advice.

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
Seek medical treatment in case of complaints.

· **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

· **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:** CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
Use fire fighting measures that suit the environment.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **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.

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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 section 13.
Pick up mechanically.

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· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
CAS: 65997-17-3	Kalk-Natron-Silikatglas	15 mg/m3
CAS: 497-19-8	Soda leicht, Natriumcarbonat	7.6 mg/m3
CAS: 554-13-2	Lithiumcarbonat	1.0 mg/m3
CAS: 7320-34-5	Tetrakaliumdiphosphat	0.73 mg/m3
CAS: 6381-59-5	Kalium-Natrium-Tartrat	12 mg/m3
· **PAC-2:**		
CAS: 65997-17-3	Kalk-Natron-Silikatglas	170 mg/m3
CAS: 497-19-8	Soda leicht, Natriumcarbonat	83 mg/m3
CAS: 554-13-2	Lithiumcarbonat	11 mg/m3
CAS: 7320-34-5	Tetrakaliumdiphosphat	8.1 mg/m3
CAS: 6381-59-5	Kalium-Natrium-Tartrat	130 mg/m3
· **PAC-3:**		
CAS: 65997-17-3	Kalk-Natron-Silikatglas	990 mg/m3
CAS: 497-19-8	Soda leicht, Natriumcarbonat	500 mg/m3
CAS: 554-13-2	Lithiumcarbonat	68 mg/m3
CAS: 7320-34-5	Tetrakaliumdiphosphat	49 mg/m3
CAS: 6381-59-5	Kalium-Natrium-Tartrat	790 mg/m3

· **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

· **Precautions for safe handling** Thorough dedusting.
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
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:** Keep respiratory protective device available.

· **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

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:** The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

CAS: 14808-60-7 Quarzsand	
PEL	Long-term value: 0.05* mg/m³ *resp. dust; 30mg/m3/%SiO2+2
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m³ *respirable particulate matter, A2
CAS: 10034-76-1 Calciumsulfat-Halbhydrat	
TLV	Long-term value: 10* mg/m³ *as inhalable fraction
CAS: 65997-15-1 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, A4

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **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:** 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.
· **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

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· 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	
· Physical state	Solid
· Color:	Grey
· Odor:	schwach
· Odor threshold:	Not determined
· Melting point/Melting range:	undetermined
· Boiling point/Boiling range:	nicht anwendbar
· Flammability:	Not determined
· Explosion limits:	
· Lower:	Not determined
· Upper:	Not determined
· Flash point:	Not applicable
· Decomposition temperature:	Not determined
· pH-value at 20 °C (68 °F):	12 (5%)
· Viscosity:	
· Kinematic:	Not applicable
· Dynamic:	Not applicable
· Solubility in / Miscibility with	
· Water:	is setting hydraulically
· Partition coefficient (n-octanol/water):	Not determined
· Vapor pressure:	Not applicable
· Vapor pressure:	
· Density:	Not determined
· Relative density	Not determined
· Bulk density:	800 kg/m³
· Vapor density	Not applicable
· Particle characteristics	Not determined

· Other information	
· Appearance:	
· Form:	Powder
· AUTO IGNITION:	Not self igniting
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· VOC-Content	0.00 % 0.0 g/l / 0.00 lb/gal
· Solids content:	99.2 %
· Volatile Organic Compounds	0.0 g/l 0.00 %

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· **Change in condition**
· **Evaporation rate** Not applicable.

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: 10034-76-1 Calciumsulfat-Halbhydrat		
Oral	LD50	>2,000 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
· **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
CAS: 1318-02-1	kristallines Aluminosilicat	3

· NTP (National Toxicology Program)
None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

· **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

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· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects**
· **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.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:** Disposal in accordance with 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**	
· **DOT, ADR, IMDG, IATA**	Void
· **UN proper shipping name**	
· **DOT, ADR, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **DOT, ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	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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· Special precautions for user	Not applicable
· 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):

CAS: 554-13-2	Lithiumcarbonat

· TSCA (Toxic Substances Control Act):

CAS: 65997-16-2	Calcium Aluminate Cement	ACTIVE
CAS: 65997-17-3	Kalk-Natron-Silikatglas	ACTIVE
CAS: 65997-15-1	Portland Cement	ACTIVE
	Kaolin, caliniert	ACTIVE
CAS: 63800-37-3	Hydrasiertes Magnesium Silikat	ACTIVE
CAS: 9004-34-6	Cellulose	ACTIVE
CAS: 9032-42-2	Cellulose, 2-hydroxyethlmethyether, modified	ACTIVE
CAS: 497-19-8	Soda leicht, Natriumcarbonat	ACTIVE
CAS: 554-13-2	Lithiumcarbonat	ACTIVE
CAS: 7320-34-5	Tetrakaliumdiphosphat	ACTIVE

· Hazardous Air Pollutants
None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

CAS: 14808-60-7	Quarzsand

· 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:

CAS: 554-13-2	Lithiumcarbonat

· New Jersey Right-to-Know List:

CAS: 65997-15-1	Portland Cement
CAS: 9004-34-6	Cellulose
CAS: 554-13-2	Lithiumcarbonat
CAS: 1317-65-3	Calciumcarbonat

· New Jersey Special Hazardous Substance List:

CAS: 554-13-2	Lithiumcarbonat	TE

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· Pennsylvania Right-to-Know List:	
CAS: 65997-15-1	Portland Cement
CAS: 9004-34-6	Cellulose
CAS: 1317-65-3	Calciumcarbonat

· **Pennsylvania Special Hazardous Substance List:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**
None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **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:** Quarzsand
Portland Cement

· **Hazard statements**
Causes skin irritation.
Causes serious eye damage.
May cause cancer.

· **Precautionary statements**
Obtain special instructions before use.
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/hearing 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.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **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.
Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
· **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 SDS is accurate. It is intended to assist the user in his evaluation of the product's harzards, 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 previous version** 03/18/2026
· **Version number of previous version:** 5
· **Date of preparation** 10/23/2026
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international 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
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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin irritation 2: Skin corrosion/irritation – Category 2
Eye damage 1: Serious eye damage/eye irritation – Category 1
Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
Carcinogenicity 1A: Carcinogenicity – Category 1A
Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3
· * Data compared to the previous version altered.