Safety Data Sheet
according to HPR, Schedule 1

Printing date 09/13/2023 **Reviewed on 09/13/2023**

*
1 Identification

· **Product identifier**

· **Trade name:** **Servoplan Ki 1**

· **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

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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.

· **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 (SiO2)
Portland Cement

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

· **Precautionary statements** Keep out of reach of children.

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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.
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.

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



Health = 3
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *3
Fire = 0
Reactivity = 0

*

3 Composition/Information on ingredients

· **Composition/Information on ingredients** .
· **Chemical characterization: Mixtures**

· Dangerous components:	
CAS: 471-34-1	Calciumcarbonat
CAS: 14808-60-7	Quarz (SiO2) Carcinogenicity - Category 1A, H350
CAS: 65997-16-2	Calcium Aluminate Cement Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319
CAS: 65997-15-1	Portland Cement Serious Eye Damage - Category 1, H318 Skin Irritation - Category 2, H315; Specific Target Organ Toxicity - Single Exposure - Category 3, H335

· **Additional information:** See also information on "8 Exposure controls and personal protective equipment".

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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:** Do not breathe dust.
Inhalation of dusts causes irritation and swelling of respiratory organs.
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
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.

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5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** The product itself does not burn.
CO_2, 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** Ensure adequate ventilation
Avoid formation of dust.
Respirator must be worn if exposed to dust.
· **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.
· **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.

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7 Handling and storage

· **Handling:**
· **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:** protected above to humidity in closing rooms
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep away from food and drink.
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 section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:	
CAS: 471-34-1 Calciumcarbonat	
PEL (USA)	TWA: 15* 5** mg/m³ *total dust **respirable fraction
REL (USA)	TWA: 10* 5** mg/m³ *total dust **respirable fraction
TLV (USA)	TLV withdrawn
CAS: 14808-60-7 Quarz (SiO2)	
EL (Canada)	TWA: 0.025 mg/m³ ACGIH A2; IARC 1
EV (Canada)	TWA: 0.10* mg/m³ *respirable fraction
PEL (USA)	TWA: 0.05* mg/m³ *resp. dust; 30mg/m3/%SiO2+2
REL (USA)	TWA: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV (USA)	TWA: 0.025* mg/m³ *respirable particulate matter, A2
CAS: 65997-15-1 Portland Cement	
EL (Canada)	TWA: 1 mg/m³ respirable
EV (Canada)	TWA: 10(D) mg/m³ total dust
PEL (USA)	TWA: 50 mppcf or 15* 5** mg/m³ *total dust **respirable fraction
REL (USA)	TWA: 10* 5** mg/m³ *total dust **respirable fraction
TLV (USA)	TWA: 1* mg/m³ E; *as respirable fraction, A4

· Additional information: 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.

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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:** Suitable respiratory protection for low concentrations or short-term exposure: particle filter EN 143 type P2 (medium retention capacity (solid and liquid pollutant particles))
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

· **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.

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **Appearance:**	
Form:	Powder
Color:	Dark grey
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C:**	12 (5%)
· **Change in condition**	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	nicht anwendbar
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not determined.
· **Auto igniting:**	n. a. °C
· **Decomposition temperature:**	Not determined.
· **AUTO IGNITION:**	Not self igniting
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	n. a. Vol %

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Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density at 20 °C:	1.35 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:	
VOC-Content	0.00 %
Solids content:	100.0 %
· Other information	The physical data are average values.

10 Stability and reactivity

· Reactivity — No further relevant information available.
· 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

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11 Toxicological information

· Information on toxicological effects
· Acute toxicity:
· 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.

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· Experience with humans: The product contains cement.In combination with humidity the product provokes an alcaline 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)
None of the ingredients is listed.

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

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.
· Ecotoxical 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.
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.

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

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

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:** Disposal in accordance with official regulations
· **Uncleaned packagings:**
· **Recommendation:** 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** · **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**

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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.

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· **TSCA (Toxic Substances Control Act):**

CAS: 471-34-1	Calciumcarbonat	ACTIVE
CAS: 65997-16-2	Calcium Aluminate Cement	ACTIVE
CAS: 65997-15-1	Portland Cement	ACTIVE
CAS: 497-19-8	Soda leicht, Natriumcarbonat	ACTIVE
CAS: 144-55-8	Natriumhydrogencarbonat	ACTIVE
CAS: 10377-48-7	Lithiumsulfat	ACTIVE

· **MAK (German Maximum Workplace Concentration)**

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:** Quarz (SiO2)
Portland Cement

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

· **Precautionary statements**
Keep out of reach of children.
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.
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.

· **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.

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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

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 MSDS 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 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.

· **Contact:**

· **Date of the latest revision of the safety data sheet** 09/13/2023

· **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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

· * Data compared to the previous version altered.