



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.02.2024

Version number 47 (replaces version 46)

Revision: 19.02.2024

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

· 1.1 Product identifier

· Trade name **ServoStar 2000 Plus Flex**

· UFI: **HE20-C036-Q00U-CYE3**

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

none

· Sector of Use

**SU21 Consumer uses: Private households / general public / consumers**

**SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)**

· Application of the substance / the mixture

**Tile adhesive**

· 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](mailto: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.**

**STOT SE 3 H335 May cause respiratory irritation.**

· 2.2 Label elements

· Labelling according to

**Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.**

(Contd. on page 2)



**Safety data sheet**

according to 1907/2006/EC, Article 31

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Version number 47 (replaces version 46)

Revision: 19.02.2024

Trade name ServoStar 2000 Plus Flex

(Contd. of page 1)

· Hazard pictograms



GHS05 GHS07

· Signal word

**Danger**

· Hazard-determining components of labelling:  
· Hazard statements

**Portland Cement**

**H315 Causes skin irritation.**

**H318 Causes serious eye damage.**

**H335 May cause respiratory irritation.**

· Precautionary statements

**P102**

**Keep out of reach of children.**

**P261**

**Avoid breathing dust/fume/gas/mist/vapours/spray.**

**P280**

**Wear eye protection / face protection.**

**P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.**

**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.**

**P304+P340**

**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**

**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**

**P405**

**Store locked up.**

**P501**

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

· 2.3 Other hazards

**The preparation is low in chromate, therefore there is no risk of sensitisation by chromate. In the ready-to-use form after addition of water, the content of soluble chromium(VI) is at most 0.0002% of the dry mass of the cement contained. A prerequisite for the effectiveness of the chromate reduction is proper dry storage and observance of the expiry date.**

· Results of PBT and vPvB assessment

· PBT:

**Not applicable.**

· vPvB:

**Not applicable.**

**SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

· Description:

**Mixtur of special cements and loading materials**

(Contd. on page 3)



**Safety data sheet**

according to 1907/2006/EC, Article 31

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Version number 47 (replaces version 46)

Revision: 19.02.2024

Trade name ServoStar 2000 Plus Flex

(Contd. of page 2)

**· Dangerous components:**

CAS: 14808-60-7	Quarz (SiO <sub>2</sub> ) substance with a Community workplace exposure limit	50-100%
CAS: 65997-15-1	Portland Cement  Eye Dam. 1, H318  Skin Irrit. 2, H315; STOT SE 3, H335	25-<50%

**· Additional information**

See also information on "8 Exposure controls and personal protective equipment".  
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.  
If you feel unwell, seek medical advice.

**· After inhalation**

Do not breathe dust.  
Inhalation of dusts causes irritation and swelling of the respiratory organs.  
In case of unconsciousness bring patient into stable side position for transport.

**· After skin contact**

Seek medical treatment in case of complaints.

**· After eye contact**

Instantly wash with water and soap and rinse thoroughly.  
Rinse opened eye for several minutes under running water.  
Then consult doctor.

**· After swallowing**

rinse out mouth  
Make patient vomit by him/herself.  
The decision whether to provoke vomiting or not is to be taken by a physician.

**· 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**

**· Suitable extinguishing agents**

The product itself does not burn.  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.  
Use fire fighting measures that suit the environment.

(Contd. on page 4)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.02.2024

Version number 47 (replaces version 46)

Revision: 19.02.2024

Trade name ServoStar 2000 Plus Flex

(Contd. of page 3)

- **For safety reasons unsuitable extinguishing agents** *Water with a full water jet.*
- **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**
- **Protective equipment:** *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** *Ensure adequate ventilation  
Avoid causing dust.  
Respirator must be worn if exposed to dust.  
Wear protective clothing.*
- **6.2 Environmental precautions:** *No special measures required.*
- **6.3 Methods and material for containment and cleaning up:** *Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Collect mechanically.*
- **6.4 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 information on disposal.*

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** *Keep the product out of the reach of children.  
Thorough dedusting.  
Do not leave the container standing open.  
Ensure good ventilation/exhaustion at the workplace.  
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:** *No special measures required.*

(Contd. on page 5)



**Safety data sheet**

according to 1907/2006/EC, Article 31

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Version number 47 (replaces version 46)

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Trade name ServoStar 2000 Plus Flex

(Contd. of page 4)

- 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: *protected above to humidity in closing rooms*
- Information about storage in one common storage facility: *No incompatible products worthy of special mention.*
- Further information about storage conditions: *Keep away from food and drink.  
Keep container tightly sealed.*
- Storage class *11*
- 7.3 Specific end use(s) *No further relevant information available.*

**SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

CAS: 14808-60-7 Quarz (SiO<sub>2</sub>)

BOELV Long-term value: 0.1\* mg/m<sup>3</sup>  
\*respirable fraction

· DNELs

CAS: 544-17-2 calcium diformate

Oral	Long-term value	23.9 mg/kg/d (Consumer)
Dermal	Short-term value	16.7 mg/cm <sup>2</sup> (Worker) 8.3 mg/cm <sup>2</sup> (Consumer)

· Additional information: \*) G = total dust  
\*\*) = respirable dust

· 8.2 Exposure controls

· Appropriate engineering controls

*No further data; see section 7.*

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures

*Do not eat or drink while working.  
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:

*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 breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.  
Breathing apparatus only if aerosol or dust is formed.*

(Contd. on page 6)



**Safety data sheet**

according to 1907/2006/EC, Article 31

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Version number 47 (replaces version 46)

Revision: 19.02.2024

Trade name ServoStar 2000 Plus Flex

(Contd. of page 5)

- **Hand protection** *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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- **Eye/face protection** *Tightly sealed safety glasses.*
- **Body protection:** *Long-sleeved work clothes.*

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
- **Physical state** *Solid.*
- **Colour:** *Grey*
- **Smell:** *Characteristic*
- **Odour threshold:** *Not determined.*
- **Melting point/freezing point:** *1,450 °C*
- **Boiling point or initial boiling point and boiling range** *2,230 °C  
not apply*
- **Flammability** *Not determined.*
- **Lower and upper explosion limit**
- **Lower:** *n. a. Vol %*
- **Upper:** *Not determined.*
- **Flash point:** *>100 °C*
- **Decomposition temperature:** *Not determined.*
- **pH at 20 °C** *12 (5%)*
- **Viscosity:**
- **Kinematic viscosity at 20 °C** *0 s (DIN 53211/4)*
- **dynamic:** *Not applicable.*
- **Solubility**
- **Water:** *is setting hydraulically  
bindet hydraulisch ab*
- **Partition coefficient n-octanol/water (log value)** *Not determined.*
- **Steam pressure:** *Not applicable.*
- **Density and/or relative density**
- **Density at 20 °C** *1.6 g/cm<sup>3</sup>*
- **Relative density** *Not determined.*
- **Settled apparent density** *1,350 kg/m<sup>3</sup>*
- **Vapour density** *Not applicable.*

(Contd. on page 7)



**Safety data sheet**

according to 1907/2006/EC, Article 31

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Version number 47 (replaces version 46)

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Trade name ServoStar 2000 Plus Flex

(Contd. of page 6)

· **Particle characteristics**

See section 3.

· **9.2 Other information**

*The physical data are average values.*

· **Appearance:**

· **Form:**

*Powder*

· **Self-inflammability:**

*Product is not selfigniting.*

· **Explosive properties:**

*Product is not explosive.*

· **Solvent content:**

· **Solids content:**

*99.5 %*

· **Change in condition**

· **Evaporation rate**

*Not applicable.*

· **Information with regard to physical hazard classes**

· **Explosives**

*Void*

· **Flammable gases**

*Void*

· **Aerosols**

*Void*

· **Oxidising gases**

*Void*

· **Gases under pressure**

*Void*

· **Flammable liquids**

*Void*

· **Flammable solids**

*Void*

· **Self-reactive substances and mixtures**

*Void*

· **Pyrophoric liquids**

*Void*

· **Pyrophoric solids**

*Void*

· **Self-heating substances and mixtures**

*Void*

· **Substances and mixtures, which emit flammable gases in contact with water**

*Void*

· **Oxidising liquids**

*Void*

· **Oxidising solids**

*Void*

· **Organic peroxides**

*Void*

· **Corrosive to metals**

*Void*

· **Desensitised explosives**

*Void*

**SECTION 10: Stability and reactivity**

· **10.1 Reactivity**

*No further relevant information available.*

· **10.3 Possibility of hazardous reactions**

*No dangerous reactions known*

· **10.4 Conditions to avoid**

*No further relevant information available.*

· **10.5 Incompatible materials:**

*No decomposition if stored and applied as directed.*

· **10.6 Hazardous decomposition products:**

*none under normal use*

EU

(Contd. on page 8)



**Safety data sheet**

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Trade name ServoStar 2000 Plus Flex

(Contd. of page 7)

**SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity **Based on available data, the classification criteria are not met.**

- LD/LC50 values that are relevant for classification:

CAS: 544-17-2 calcium diformate

Oral	LD50	3,050 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	>0.67 mg/l (Rat)

- Skin corrosion/irritation **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.**
- 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 **May cause respiratory irritation.**
- 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.**
- Experience with humans: **If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known. May cause eye/skin irritation. The product contains cement. In combination with humidity the product provokes an alkaline reaction.**
- Additional toxicological information: **According to concentration, aqueous solution causes irritations or burns of eyes, skin and mucous membranes.**

- 11.2 Information on other hazards

- Endocrine disrupting properties
- None of the ingredients is listed.

**SECTION 12: Ecological information**

- 12.1 Toxicity

- Aquatic toxicity:

CAS: 544-17-2 calcium diformate

EC50 (48h) >1,000 mg/l (Dap)

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

(Contd. on page 9)



**Safety data sheet**

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Version number 47 (replaces version 46)

Revision: 19.02.2024

Trade name ServoStar 2000 Plus Flex

(Contd. of page 8)

- vPvB: **Not applicable.**
- 12.6 Endocrine disrupting properties **The product does not contain substances with endocrine disrupting properties.**
- 12.7 Other adverse effects
- 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 bodies or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
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.**

**SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods
- 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.**
- Recommended cleaning agent: **Water, if necessary with cleaning agent.**

**SECTION 14: Transport information**

- 14.1 UN number or ID 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
- Class **Void**
- 14.4 Packing group
- ADR, IMDG, IATA **Void**

(Contd. on page 10)



**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 19.02.2024

Version number 47 (replaces version 46)

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Trade name ServoStar 2000 Plus Flex

(Contd. of page 9)

· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	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 are included

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations

· Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

EU

(Contd. on page 11)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.02.2024

Version number 47 (replaces version 46)

Revision: 19.02.2024

Trade name ServoStar 2000 Plus Flex

(Contd. of page 10)

### SECTION 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.

(n.a. - not applicable, n.d. - not determined)

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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Date of previous version: 04.04.2022

· Version number of previous version: 46

· 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  
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)  
DNEL: Derived No-Effect Level (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
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  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· \* 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.