

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.06.2016

Version number 24

Revision: 20.06.2016

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

- 1.1 Product identifier
- Trade name Servofix FG
- 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)
- 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
- 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.
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 *The product is classified and labelled according to the CLP regulation.*
- Hazard pictograms

GHS05
- Signal word **Danger**
- Hazard-determining components of labelling: **Portland Cement**
- Hazard statements **H315 Causes skin irritation.**
H318 Causes serious eye damage.

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- **Precautionary statements**
 - P102** Keep out of reach of children.
 - P260** Do not breathe dust/fume/gas/mist/vapours/spray.
 - P280** Wear protective gloves/protective clothing/eye protection/face protection.
 - P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P301+P330+P331** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixtur of special cements and loading materials

• **Dangerous components:**

Calcium Aluminate Cement	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	10-<20%
Portland Cement	⚠ Eye Dam. 1, H318 ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	<10%

- **Additional information** Have also a look to point 8 "Exposure controls and personal protection"
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** If you feel unwell, seek medical advice.
Immediately remove contaminated clothing.
- **After inhalation** Do not breathe dust.
Inhalation of dusts causes irritation and swelling of respiratory ducts.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
Instantly rinse with water.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Rinse out mouth and then drink plenty of water.
The decision whether to provoke vomiting or not is to be taken by a physician.

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- 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.
CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.*
- 5.2 Special hazards arising from the substance or mixture *Formation of poisonous gases during heating or in fires.
Formation of toxic gases is possible during heating or in case of fire.*
- 5.3 Advice for firefighters
· Protective equipment: *Wear breathing 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.
Put on breathing apparatus.*
- 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.
hardened after contact with water*
- 6.4 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 information on disposal.*

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling *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*

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- *Information about protection against explosions and fires:* *Keep breathing equipment ready.*
- *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 to be specially mentioned*
- *Further information about storage conditions:* *Keep away from food and drink.
Keep container tightly sealed.*
- *7.3 Specific end use(s)* *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- *Additional information about design of technical systems:* *No further data; see item 7.*
- *8.1 Control parameters*

• *Components with critical values that require monitoring at the workplace:*

Portland Cement

WEL Long-term value: 10* 4** mg/m³
*inhalable dust **respirable dust

- *Additional information:* ** = total dust
The lists that were valid during the compilation were used as basis.*
- *8.2 Exposure controls*
- *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:* *Breathing apparatus only if aerosol or dust is formed.
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.*
- *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 manufacturer to manufacturer. As the product is a preparation of*

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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 safety glasses.
- Body protection: long sleeved clothing

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• General Information

• Appearance:

Form:	Powder
Colour:	Dark grey
Smell:	Characteristic
Odour threshold:	Not determined.

• pH-value at 20 °C: 11

• Change in condition

Melting point/Melting range:	n. b. °C
Boiling point/Boiling range:	not apply

• Flash point: Not applicable

• Inflammability (solid, gaseous) Not determined.

• Ignition temperature: n. a. °C

• Decomposition temperature: Not determined.

• Self-inflammability: Product is not selfigniting.

• Danger of explosion: Product is not explosive.

• Critical values for explosion:

Lower:	n. a. Vol %
Upper:	Not determined.

• Steam pressure: n. a. hPa

• Density at 20 °C 1.35 g/cm³

Settled apparent density at 20 °C	1300 kg/m ³
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.

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- | | |
|-------------------------|---------------------------------------|
| • Viscosity: | |
| dynamic: | Not applicable. |
| kinematic: | Not applicable. |
| • Solvent content: | |
| Organic solvents: | 0.0 % |
| • Solids content: | 100.0 % |
| • 9.2 Other information | The physical data are average values. |

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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 |

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SECTION 11: Toxicological information

- | | |
|---|--|
| • 11.1 Information on toxicological effects | |
| • Acute toxicity | Based on available data, the classification criteria are not met. |
| • Primary irritant effect: | |
| • 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. |
| • 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. |
| • CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) | |
| • 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 | Based on available data, the classification criteria are not met. |
| • 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. |

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SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **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 bodies or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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:** Empty containers should be taken for local recycling, recovery or waster disposal.

SECTION 14: Transport information

- | | |
|--|------|
| • 14.1 UN-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 |

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• 14.5 Environmental hazards:	
• Marine pollutant:	No
• 14.6 Special precautions for user	Not applicable.
• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
• Transport/Additional information:	Not classified as dangerous in the meaning of transport regulations.
• UN "Model Regulation":	Void

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SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Decree to be applied in case of technical fault: n.a.
- Technical instructions (air):
- Class Share in % n.a.
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations -
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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.

- Relevant phrases
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H335 May cause respiratory irritation.
- Department issuing data specification sheet: Health protection and safety
- 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
 - IATA: International Air Transport Association

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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)

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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.

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