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

Printing date 08.12.2021 Version number 2 (replaces version 1) Revision: 08.12.2021

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

· **1.1 Product identifier**

· **Trade name: HECK SILCO FF Silicon-Fassadenfinish**
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the mixture** Coating material

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
HECK Wall Systems GmbH

Thölauer Strasse 25
95615 Marktredwitz
Tel.: 0049 / 9231 8020

· **Further information obtainable from:** Tel.: 09231-802-0 sds@wall-systems.com
· **1.4 Emergency telephone number:**
Giftnotruf Berlin +49 (0)30 30686700 - 24h-Service for national and international calls

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **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** Void
· **Signal word** Void
· **Hazard statements**
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Additional information:**
EUH208
EUH211
Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) [CIT/MIT (3:1)]. May produce an allergic reaction.
Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

* SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

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· ***Dangerous components:***

CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	≤25%
CAS: 26530-20-1 EINECS: 247-761-7 Reg.nr.: 01-2120768921-45	2-octyl-2H-isothiazol-3-one [OIT] Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	<0.007%
CAS: 55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) [CIT/MIT (3:1)] Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	<0.0015%

· ***Additional information:*** *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 any clothing soiled by the product.*
· ***After inhalation:*** *Supply fresh air; consult doctor 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 with water.
Do not induce vomiting; call for medical help immediately.
· ***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:***
Use fire extinguishing methods suitable to surrounding conditions.
Water spray
Alcohol resistant foam
Fire-extinguishing powder
Carbon dioxide
· ***For safety reasons unsuitable extinguishing agents:*** *Water with full 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:*** *Mount respiratory protective device.*

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Ensure adequate ventilation
· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
· **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 disposal information.

*
SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Store in a cool location.
· **Information about storage in one common storage facility:** Store away from oxidising agents.
· **Further information about storage conditions:**
Protect from frost.
Protect from heat and direct sunlight.
· **7.3 Specific end use(s)** No further relevant information available.

*
SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
13463-67-7 titanium dioxide	
WEL	Long-term value: 10* 4** mg/m³ *total inhalable **respirable

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

· **8.2 Exposure controls**
· **Appropriate engineering controls** No further data; see item 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.
· **Respiratory protection:**
Filter P2
Use suitable respiratory protective device only when aerosol or mist is formed.
· **Hand protection**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye/face protection** *Safety glasses*
· **Body protection:** *Protective work clothing*

* SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Colour:**	*Various colours*
· **Odour:**	*Product specific*
· **Melting point/freezing point:**	*Undetermined.*
· **Flash point:**	*Not applicable.*
· **Auto-ignition temperature:**	*Product is not self-igniting.*
· **Decomposition temperature:**	*Not determined.*
· **pH at 20 °C**	*8-9*
· **Viscosity:**	
· **Kinematic viscosity**	*Not determined.*
· **Dynamic:**	*Not determined.*
· **Solubility**	
· **water:**	*Dispersible.*
· **Partition coefficient n-octanol/water (log value)**	*Not determined.*
· **Vapour pressure:**	*Not determined.*
· **Density and/or relative density**	
· **Density at 20 °C:**	*1.4-1.5 g/cm³*
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	*Fluid*
· **Important information on protection of health and environment, and on safety.**	
· **Explosive properties:**	*Product does not present an explosion hazard.*
· **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*

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· **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.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **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 further relevant information available.

* 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 relevant for classification:**		
13463-67-7 titanium dioxide		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rbt)
Inhalative	LC50 (4 h)	>6.82 mg/L (rat)
26530-20-1 2-octyl-2H-isothiazol-3-one [OIT]		
Oral	LD50	>500 mg/kg (rat)
Dermal	LD50	>900 mg/kg (rat)
Inhalative	LC50 (4 h)	0.27 mg/L (rat)
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) [CIT/MIT (3:1)]		
Oral	LD50	64 mg/kg (rat)
Dermal	LD50	87.12 mg/kg (rabbit)
Inhalative	LC50 (4 h)	0.33 mg/L (rat) (OECD 403)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitisation**		
26530-20-1 2-octyl-2H-isothiazol-3-one [OIT]		
Sensitisation	OECD 429 (LLNA)	skin sensitizing (mouse)
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) [CIT/MIT (3:1)]		
Sensitisation	OECD 406	skin sensitizing (guinea pig)

· **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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· ***11.2 Information on other hazards***

· ***Endocrine disrupting properties***
None of the ingredients is listed.

*
SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
13463-67-7 titanium dioxide	
EC50 (24 h)	*>100 mg/L (Daphnia magna) (OECD 202)*
26530-20-1 2-octyl-2H-isothiazol-3-one [OIT]	
EC50 (24 h)	*0.42 mg/L (Daphnia magna) (OECD 202)*
EC50 (48 h)	*0.084 mg/L (Desmodesmus subspicatus) (OECD 201)*
LC50 (96 h)	*0.036 mg/L (Oncorhynchus mykiss) (OECD 203)*
NOEC (72 h)	*0.004 mg/L (Algae) (OECD 201)*
NOEC (28 d)	*0.022 mg/L (Oncorhynchus mykiss) (OECD 210)*
NOEC (21 d)	*0.002 mg/L (Daphnia magna) (OECD 211)*
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) [CIT/MIT (3:1)]	
EC50 (24 h)	*0.1 mg/L (Daphnia magna) (OECD 202)*
	0.0052 mg/L (Skeletonema costatum) (ISO 10253)
EC50 (48 h)	*0.048 mg/L (Pseudokirchneriella subcapitata) (OECD 201)*
LC50 (48 h)	*0.16 mg/L (Daphnia magna)*
LC50 (96 h)	*0.22 mg/L (Oncorhynchus mykiss) (OECD 203)*
NOEC (48 h)	*0.00064 mg/L (Skeletonema costatum) (ISO 10253)*
NOEC (72 h)	*0.0012 mg/L (Pseudokirchneriella subcapitata) (OECD 201)*
NOEC (28 d)	*0.098 mg/L (Oncorhynchus mykiss) (OECD 215)*
NOEC (21 d)	*0.004 mg/L (Daphnia magna) (OECD 211)*

· ***12.2 Persistence and degradability***	
26530-20-1 2-octyl-2H-isothiazol-3-one [OIT]	
OECD 309 Simulation Biodegradation - Surface Water	*0.6-1.4 d*
OECD 309 Simulation Biodegradation - Sea Water	*1.6-2.1 d*
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) [CIT/MIT (3:1)]	
OECD 301 D Closed-Bottle-Test	*>60 %*
OECD 308 Simulation Biodegradation Aqu Sed System	*1.82-1.92 d*

· ***12.3 Bioaccumulative potential***	
26530-20-1 2-octyl-2H-isothiazol-3-one [OIT]	
OECD 117 LogKow (HPLC Method)	*2.92 (n-Octanol/Wasser (n-Octanol/water))*
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) [CIT/MIT (3:1)]	
OECD 117 LogKow (HPLC Method)	*≤0.71*
Bioconcentration factor BCF	*3.16 (berechnet (calculated))*

· ***12.4 Mobility in soil*** *No further relevant information available.*

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· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***12.6 Endocrine disrupting properties*** *The product does not contain substances with endocrine disrupting properties.*
· ***12.7 Other adverse effects***

· **Behaviour in sewage processing plants:**	
26530-20-1 2-octyl-2H-isothiazol-3-one [OIT]	
OECD 303 A: Activated Sludge Units	>83 %
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) [CIT/MIT (3:1)]	
OECD 302 B Zahn-Wellens Test	100 %
OECD 303 A: Activated Sludge Units	>80 %

· ***Additional ecological information:***
· ***General notes:***
Water hazard class 1 (German Regulation) (VwVwS.17.05.99/4): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation*** *Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

· ***Uncleaned packaging:***
· ***Recommendation:***
Disposal must be made according to official regulations.
Non contaminated packagings may be recycled.

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*
· ***14.5 Environmental hazards:***	*Not applicable.*
· ***14.6 Special precautions for user***	*Not applicable.*
· ***14.7 Maritime transport in bulk according to IMO instruments***	*Not applicable.*
· ***Transport/Additional information:***	*Not dangerous according to the above specifications.*
· ***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:***

· ***Waterhazard class:*** *Water hazard class 1 (German Regulation VwVwS.17.05.99/4): slightly hazardous for water.*
· ***15.2 Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Relevant phrases***
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

· ***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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **** Data compared to the previous version altered.***