

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

Printing date 30.01.2018

Revision: 26.01.2018

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

· **1.1 Product identifier**

· **Trade name:** SILICATECOLOR

· **Article number:** CST

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

The product is a water-based micro-reinforced silicate facade paint SILICATECOLOR, CST.

· **Life cycle stages**

PW Widespread use by professional workers

C Consumer use

· **Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

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

SU19 Building and construction work

· **Product category**

PC9a Coatings and paints, thinners, paint removers

SILICATECOLOR is a facade paint based on potash water glass.

· **Process category**

PROC10 Roller application or brushing

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

· **Environmental release category** ERC10a Widespread use of articles with low release (outdoor)

· **Application of the substance / the mixture**

Dispersion paint/ Latex paint

SILICATECOLOR is a micro-reinforced facade paint based on potash water glass. It is suitable for decorative protection of solid, embossed or coarse and fine smoothed or fine coarse, also mended, and, with regard to roughness, non-equalised mineral facade surfaces (at least a month old lime or lime-cement renders). Paint film reinforced with thin synthetic fibres does not crack on spots of too-thick applications in furrows, channels and holes and it also fills well hairline cracks, i.e. cracks up to 0.3 mm wide. Application is also possible to well adhered old silicate paint coats and on mineral and silicate decorative renders. SILICATECOLOR binds chemically to the surface and it is distinguished by excellent coverage and good water vapour permeability. Paint film is resistant to the effects of smoke, ultraviolet radiation and other atmospheric factors; it is resistant in any climatic conditions.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

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1262 DOL PRI LJUBLJANI

SLOVENIA

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· **Further information obtainable from:**

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1.4 Emergency telephone number:

Emergency number: 112
United Kingdom: NPIS 0870 600 6266

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

The product is classified as a dangerous mixture for the aquatic life in accordance with the regulation on classification of chemicals, obliged to the Regulation CLP 2008/1272/EC. Potentially can cause an allergic reaction.

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-determining components of labelling:**

terbutryn

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P103 Read label before use.

P273 Avoid release to the environment.

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 or shower.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P402+P404 Store in a dry place. Store in a closed container.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

Safety data sheet available on request.

The product is treated in accordance with Regulation EU / 528/2012, Art. 58th.

In-can protection in the container is enabled due to the content of active ingredients: methyl-isothiazolin, benz-isothiazolin, Zinc pyrithion.

Algicidal and fungicidal in-film protection of layer is provided by the content of Terbutryn, Zinc pyrithione and 2-octyl-2H-isothiazol-3-one.

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**

The product is a chemical compound characterised by low content of hazardous substances.

Main ingredients of SILICATECOLOR are polymeric binders based on styrene-acrylate emulsion, potash water glass, fine calcite and aluminosilicate fillers, synthetic microfibres, cellulose and xanthan thickening agent, supplements and water.

Description: Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS: 112-34-5 EINECS: 203-961-6	2-(2-butoxyethoxy)ethanol ⚠ Eye Irrit. 2, H319	< 1.0%
CAS: 886-50-0 EINECS: 212-950-5	terbutryn ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	< 0.9 (0.09)%
CAS: 13463-41-7 EINECS: 236-671-3	Pyrithione zinc ⚠ Acute Tox. 3, H301; Acute Tox. 3, H331; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 0.04 (0.008)%
CAS: 26530-20-1 EINECS: 247-761-7	2-octyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	< 0.04 (0.004)%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 0.04%
CAS: 1310-73-2 EINECS: 215-185-5	sodium hydroxide ⚠ Skin Corr. 1A, H314	< 0.1%
CAS: 31795-24-1 EINECS: 250-807-9	potassium methylsilanetriolate ⚠ Skin Corr. 1A, H314	< 0.5%
CAS: 5964-35-2 EINECS: 227-743-5	tetrapotassium ethylenediaminetetraacetate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	< 0.5%
CAS: 1312-76-1 EINECS: 215-199-1	Water solution of Silicic acid, potassium salt, mol ratio >3.2	10.0%

· Additional information:

For the wording of the listed hazard phrases refer to section 16.

Classification and labelling of the product is prepared in accordance with the instructions of the supplier of biocidal active ingredients or biocide products.

The technology of protection active ingredients (AMME - Advanced Micro Matrix Embedding) allows changing of the classification of chemicals and this resulting in different labelling of products containing processed substances.

The total content and the content of free terbutryn are indicated. Only the content of free terbutryn is toxicological relevant and is subject to the classification of this mixture regarding the following properties: environmental hazardous properties, sensitisation.

The total content and the content of free 2-octyl-2H-isothiazol-3-one (OIT) are indicated. Only the content of free OIT is toxicological relevant and is subject to the classification of this mixture regarding the following properties: environmental hazardous properties, skin and eye irritation, sensitisation.

The total content and the content of free zinc pyrithione (ZnPy) are indicated. Only the content of free ZnPy is toxicological relevant and is subject to the classification of this mixture regarding the following properties: environmental hazardous properties, skin and eye irritation.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **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.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
In case of gas release or seepage into the ground inform responsible authorities.
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).
- **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:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:** Protect from frost.
- **Storage class:** Storage class: 12 – Incombustible products
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

112-34-5 2-(2-butoxyethoxy)ethanol

WEL	Short-term value: 101.2 mg/m ³ , 15 ppm
	Long-term value: 67.5 mg/m ³ , 10 ppm

1310-73-2 sodium hydroxide (0.1%)

WEL	Short-term value: 2 mg/m ³
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1314-13-2 zinc oxide (0.03%)

WEL	Long-term value: 5 mg/m ³
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26530-20-1 2-octyl-2H-isothiazol-3-one (0.04%)WEL Long-term value: 0.05 mg/m³

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Respiratory protection:** Not required.

· **Protection of hands:**

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 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 protection:** Goggles recommended during refilling

· **Risk management measures**

It is recommended to use high-quality work clothing and protective equipment. Use only outfits that meet the following standards:

- Protective gloves that meet the criteria of BS EN 374.

- Protective goggles must comply with standard BS EN 166.

- Protective mask respirator for fine dust particles and vapors should be in accordance with BS EN 143 (full face masks), BS EN 149 (dust particle filters), BS 14387 (filters for gases and combined filters)

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Pasty

Colour: Different according to colouring

· **Odour:** Mild

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 10

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 100 °C

· **Flash point:** 100 °C

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

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Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1,45 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	1,0 %
VOC (EC)	1.00 %
	The content of VOC: NANOCOLOR max. 15 g/L VOC In accordance with the Directive 2004/42/EC the products is a coating of category A/c. EU VOC (cat. A/c) 40 g/l (2010)
Solids content:	42,0 %
· 9.2 Other information	No further relevant information available.

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.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

 oral. > 2000 mg/kg (rat)
 dermal. > 2000 mg/kg(rat)
 inhal. > 2 mg/kg, 4h (rat)

886-50-0 terbutryn

Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>2200 mg/l (rat)

1314-13-2 zinc oxide

Oral	LD50	> 5000 mg/kg (rat)
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1310-73-2 sodium hydroxide

Oral	LD50	2,000 mg/kg (rat)
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 Zinc pyrithione (CAS: 13463-41-7)

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Oral LD50: 269 mg / kg (rat)
Dermal LD50: < 2000 mg / kg (rat)
Inhalation LC50: < 2000 mg / m³ / 4h (rat)

- **Primary irritant effect:**
- **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** Based on available data, the classification criteria are not met.
- **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.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**

Terbutryn - CAS 886-50-0

Acute EC50 0.013 mg / L Algae - *Selenastrum capricornutum*; 168 hours
Acute EC50 2.66 mg / L Daphnia; 48 hours
Acute LC50 1.3 mg / l Fish - *Lepomis machrochiris*; 96 hours
Acute LC50 1.1 mg / L Fish; 96 hours
Acute LC50 > 1000 mg / l Microorganism; 3 hours
Chronic NOEC 1.3 mg / l Daphnia - *Daphnia magna*; 21 days
Chronic NOEC 0.84 mg / l Fish - Fathead minnow; 35 days
Chronic NOEC 0.01 mg / l Fish - Rainbow trout; 21 days

2-octyl-2H-isothiazol-3-one (CAS: 26530-20-1)

EC20 / 0.5h - 10.4 mg / l (active sludge)
EC20 / 3h - 7.3 mg / l (active sludge)

Zinc pyrithione (CAS: 13463-41-7)

Acute EC50: 0.028 mg / l - *Selenastrum capricornutum*
Acute LC50: 0.082 mg / l - *Daphnia magna*

- **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:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (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.
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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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.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
20 01 27*	paint, inks, adhesives and resins containing hazardous substances
15 01 02	plastic packaging

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN-Number**

The product SILICATECOLOR is not a substance or mixture classified in accordance with the provisions of ADR as dangerous for transport.

· **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 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

-

· **UN "Model Regulation":**

Void

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Following regulation was considered in the preparation of document:

Legislation on the occupational health and safety, the chemical legislation and regulations on biocidal products, regulations on classification, packaging and labeling of chemical and biocidal products and requirements on safety data sheets for chemicals and biocidal products composition, as well as regulations on the management of packaging and packaging waste and waste.

In accordance with the current regulation the product is classified as a dangerous substance or mixture for the environment. It potentially can cause an allergic reaction.

General safety measures should be considered when working or handling with the product.

· **Labelling according to Regulation (EC) No 1272/2008 -**

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- **Chemical safety assessment** -
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** -
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **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.
- 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.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

- **Recommended restriction of use**

Claims contained in this document are based on our actual knowledge at the time of revision of this document. They do not undertake the properties of the product described in terms of the legal provisions for the pledge.

Placing this document as available does not unbind the product customer from its responsibility to comply with all relevant laws and regulations applicable for this product. This is especially valid in the case of product resale or resale of its mixtures or manufactured products from other areas of law and industrial property rights of third parties. If the product described above is changed by crafting or mixing with other materials, it is not possible to transfer claims from this document onto a newly made product, unless otherwise specified. In the case of product re-packaging the customer must attach the required relevant safety information as well.

- **Department issuing SDS:**

JUB d.o.o.
Product safety department

- **Contact:**

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TRC-JUB
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- **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
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)
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
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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*Skin Sens. 1: Skin sensitisation – Category 1**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.***Version 1.0, 3.11.2017.**Version 2.0, 26.01.2018; Amendments to Chapter: 1.,2.,3.,13.,15.,16.*

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