

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

· **1.1 Product identifier**

· **Trade name:** NANOXILCOLOR

· **Article number:** NXC ver. 1

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

· Self-cleaning micro-reinforced façade paint, NANOXILCOLOR, NCX .

· **Product category**

NANOXILCOLOR is a micro-reinforced façade paint with a self-cleaning effect. It is based on water dispersion of silicone binders.

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

NANOXILCOLOR facade paint is suitable for decorative protection of all types of solid, embossed or coarse and smoothed or fine coarse façade surfaces (at least a month old lime-cement and cement renders, at least a month old unplastered concrete façade surfaces, fibre-cement and similar façade boards and similar). Paint film is additionally reinforced with thin synthetic fibres so that it does not crack on spots of excessively thick applications, in furrows, channels and holes. Application is also possible to well adhered old acrylic, silicate and silicone paint coats and decorative renders of all types.

It is more difficult for dust, soot and other filth to adhere to surfaces processed with NANOXILCOLOR due to its high content of silicone binders as well as siloxane and other supplements, which form an extremely water repellent texture on the surface. Thus, dust, soot and other filth are largely washed away by drainage water. Painted surfaces remain resistant to infection with the most widespread types of wall algae and mould for a long time; NANOXILCOLOR is thus also suitable for maintenance painting of façade surfaces infected with wall algae and mould if such surfaces are disinfected well prior to the application of the paint.

In addition to the mentioned characteristics, the paint is also distinguished by good coverage and very high water vapour permeability. The paint is easy to apply and it is available in a large number of pastel shades in the tinting system.

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

· **Manufacturer/Supplier:**

JUB d.o.o.

Dol pri Ljubljani 28

1262 DOL PRI LJUBLJANI

SLOVENIA

T: + 386 1 5884 183

F: + 386 1 5884 250

E: info@jub.si

· **Further information obtainable from:**

Product safety department:

TRC JUB d.o.o.

Branko Petrovic, MSc

T: +386 1 5884 185

F: +386 1 5884 227

E: branko.petrovic@trc-jub.si

· **1.4 Emergency telephone number:**

During normal opening times (8 - 16h CET) Group JUB: +386 1 5884 185

Emergency number: 112

United Kingdom: NPIS 0870 600 6266

## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

In accordance with Regulations on the classification of chemicals (Rules on classification and mainly directives EU 1967/548/EEC and 1999/45/EC, bounded by the Regulation CLP 2008/1272/EC), the product is classified as a hazardous compound harmful to human and to the environment due to a certain low content

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of algicide substance.

*Risks to man: May cause an allergic skin reaction.**Risks to the environment: harmful to aquatic organisms: may cause long-term adverse effects in the aquatic environment.*

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



GHS07

Skin Sens. 1      H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Information concerning particular hazards for human and environment:**

*The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.*

- **Classification system:**

*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*

- **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**



GHS07

- **Signal word** Warning

- **Hazard-determining components of labelling:**

*reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)*

- **Hazard statements**

*H317 May cause an allergic skin reaction.**H412 Harmful to aquatic life with long lasting effects.*

- **Precautionary statements**

P101      *If medical advice is needed, have product container or label at hand.*P102      *Keep out of reach of children.*P103      *Read label before use.*P261      *Avoid breathing dust/fume/gas/mist/vapours/spray.*P280      *Wear protective gloves/protective clothing/eye protection/face protection.*P273      *Avoid release to the environment.*P321      *Specific treatment (see on this label).*P333+P313 *If skin irritation or rash occurs: Get medical advice/attention.*P501      *Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **Additional information:**

*Contains terbutryn, 1,2-benzisothiazol-3(2H)-one, 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.**Safety data sheet available on request.**Algicidal and fungicidal in-film protection of layer is provided by the content of Terbutryn, Zinc pyrithione and 2-octyl-2H-isothiazol-3-on ( Art. 58, Reg. 528/2012/EC).*

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### · 3.2 Chemical characterisation: Mixtures



























The product is a chemical compound of a polymeric emulsion and inorganic fillers.

Main ingredients of NANOXILCOLOR coat are silicone and styrene-acrylate binder, fine calcite and aluminosilicate fillers, synthetic microfibrils, titanium dioxide, cellulose thickening agent, supplements and water.

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

### · **Dangerous components:**

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

CAS: 886-50-0 EINECS: 212-950-5	terbutryn  N R50/53 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	< 0.1%
	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)  T R23/24/25;  C R34;  Xi R43;  N R50/53 ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;  Skin Corr. 1B, H314;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Sens. 1, H317	< 0.004%
CAS: 2634-33-5 EINECS: 220-120-9	1,2-benzisothiazol-3(2H)-one  Xn R22;  Xi R38-41;  Xi R43;  N R50  Eye Dam. 1, H318;  Aquatic Acute 1, H400;  Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	< 0.01%
CAS: 13463-41-7 EINECS: 236-671-3	Pyrithione zinc  T R23;  Xn R22 ⚠ Acute Tox. 2, H330;  Acute Tox. 4, H302	< 0.03%
CAS: 26530-20-1 EINECS: 247-761-7	2-octyl-2H-isothiazol-3-one  T R23/24;  C R34;  Xn R22;  Xi R43;  N R50/53 ⚠ 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	< 0.015%

### · **Additional information:**

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

## 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:** Immediately rinse with water.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **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.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

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- **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.
- **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:**  
Store under lock and key and with access restricted to technical experts or their assistants only.
- **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:**

26530-20-1 2-octyl-2H-isothiazol-3-one (0.015%)	
WEL	Long-term value: 0.05 mg/m <sup>3</sup>
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (0.004%)	
WEL	Long-term value: 0.05 mg/m <sup>3</sup>

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

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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**· 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 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 388 (Category II).
- Protective goggles must comply with standard BS EN 166
- Protective mask respirator for small dust particles must conform to standard BS EN 149.

## SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

<b>Form:</b>	Suspension
<b>Colour:</b>	Different according to colouring
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**· pH-value at 20 °C:** 9.5

**· Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	100 °C

**· Flash point:** 100 °C

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

**· Ignition temperature:**

**Decomposition temperature:** Not determined.

**· Self-igniting:** Product is not selfigniting.

**· Danger of explosion:** Product does not present an explosion hazard.

**· Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**· Vapour pressure:** Not determined.

**· Density at 20 °C:** 1.5 g/cm<sup>3</sup>

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· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>VOC (EC)</b>	1.30 %
	The content of VOC: max. 20 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)
<b>Solids content:</b>	65.0 %
· <b>9.2 Other information</b>	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**
- **LD/LC50 values relevant for classification:**

oral. &gt; 2000 mg/kg (rat)

dermal. &gt; 2000 mg/kg (rat)

inhal. &gt; 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)

- **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**  
May cause an allergic skin reaction.
- **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.

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· **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)

EC50 / 72h - 0,104 mg/l (Pseudokirchneriella subcapitata)

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

EC20 / 0,5h - 10,4 mg/l (Activated Sludge)

EC20 / 3h - 7.3 mg/l (Activated Sludge)

- **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:**

Generally not hazardous for water

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.**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 dangerous substances
17 09 03*	other construction and demolition wastes (including mixed wastes) containing dangerous 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 NANOXILCOLOR 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

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· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b>	-
· <b>UN "Model Regulation":</b>	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 harmful mixture for human and aquatic organisms.

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

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

· **Chemical safety assessment** -

· **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.
H315	Causes skin irritation.
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.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R23/24	Toxic by inhalation and in contact with skin.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.

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R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **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 MSDS: Product safety department**

· **Contact:**

mag. Branko Petrovič

TRC-JUB d.o.o

branko.petrovic@trc-jub.si

· **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, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Acute Tox. 2: Acute toxicity, Hazard Category 2

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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

Version 1.0, 27.09.2013.

Version 2.0, 24.07.2015; Amending Chapter: 2., 3., 8., 11., 12., 15., 16.

GB