

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 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.

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1262 DOL PRI LJUBLJANI

SLOVENIA

T: + 386 1 5884 183

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· Further information obtainable from:

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· 1.4 Emergency telephone number:

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

United Kindom: 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, bound by the Regulation CLP 2008/1272/EC), the product is classified as a hazardous compound harmful to the environment due to a certain low content of algicide substance. The content of other potentially hazardous components is lower than the classification criteria.

Risks to man are not known.

(Contd. on page 2)

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

Printing date 15.04.2014

Revision: 15.04.2014

Trade name: NANOXILCOLOR

(Contd. of page 1)

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**
The product is not classified according to the CLP regulation.

- **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 EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Hazard-determining components of labelling:**
terbutryn
- **Risk phrases:**
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
2 Keep out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of water.
29 Do not empty into drains.
46 If swallowed, seek medical advice immediately and show this container or label.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- **Special labelling of certain preparations:**
Safety data sheet available for professional user on request.

· 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 characterization: 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	terbutryn	< 0.1%
EINECS: 212-950-5	 N R50/53	
	 Aquatic Acute 1, H400;  Aquatic Chronic 1, H410;  Acute Tox. 4, H302	

· Additional information:

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

GB

(Contd. on page 3)

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

Printing date 15.04.2014

Revision: 15.04.2014

Trade name: NANOXILCOLOR

(Contd. of page 2)

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.
- **5.3 Advice for firefighters**
- **Protective equipment:** CO₂, sand, extinguishing powder. Do not use water.

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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 4)

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

Printing date 15.04.2014

Revision: 15.04.2014

Trade name: NANOXILCOLOR

(Contd. of page 3)

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

SECTION 9: Physical and chemical properties

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

Form:	Suspension
Colour:	Different according to colouring
Odour:	Characteristic
Odour threshold:	Not determined.
- **pH-value at 20 °C:** 9.5
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C
- **Flash point:** 100 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:**

Decomposition temperature:	Not determined.
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- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 1.5 g/cm³

(Contd. on page 5)

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

Printing date 15.04.2014

Revision: 15.04.2014

Trade name: NANOXILCOLOR

(Contd. of page 4)

· 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:	0.0 %
VOC (EC)	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)
Solids content:	65.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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. > 5000 mg/kg (Rat)
 - dermal. > 5000 mg/kg (Rat)
 - inhal. > 5 mg/kg, 4h (Rat)
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

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:**
- **Remark:** Harmful to fish

(Contd. on page 6)

-GB-

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

Printing date 15.04.2014

Revision: 15.04.2014

Trade name: NANOXILCOLOR

(Contd. of page 5)

- **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 | <i>The product NANOXILCOLOR is not a substance or mixture classified in accordance with the provisions of ADR as dangerous for transport.</i> |
| · 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: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | - |
| · UN "Model Regulation": | - |

GB

(Contd. on page 7)

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

Printing date 15.04.2014

Revision: 15.04.2014

Trade name: NANOXILCOLOR

(Contd. of page 6)

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

· **Labelling according to EU guidelines:**

· **Special labelling of certain preparations: -**

· **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**

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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:**

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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 Harmonized 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

· *** Data compared to the previous version altered. Version 1.0, 27.09.2013.**