

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

· **1.1 Product identifier**

· Trade name: TAKRIL

· Article number: TKL ver. 26

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

·

Water-based coat TAKRIL, TKL.

· **Product category**

TAKRIL is a dispersion concrete paint based on water dispersion of acrylic polymeric binders.

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

Takril is a dispersion paint based on polymeric binders; it is used for decorative and anti-dust protection of vertical concrete surfaces and other cement-based substrates and interior wall surfaces; anti-dust protection of all types of cement-based floor surfaces in less exposed rooms; protection of concrete against carbonisation.

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 Kindom: NPIS 0870 600 6266

SECTION 2: Hazards identification

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

The product is not classified as a dangerous mixture in accordance with the Regulation on the classification of chemicals (Rules on classification and particularly EU Directives 1967/548/EEC and 1999/45/EC, and bounded to the Regulation CLP 2008/1272/EC) since the content of potentially dangerous components is lower than the criteria of classification.

Hazards for a human: may produce an allergic reaction.

Hazards for an environment are not known.

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

The substance is not classified as hazardous to health or environment according to the CLP regulation.

The product is not classified according to the CLP regulation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.**

(Contd. on page 2)

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

Printing date 17.08.2015

Revision: 07.04.2014

Trade name: TAKRIL














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- **Information concerning particular hazards for human and environment:**
The product does not have 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.
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- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008 Void**
 - **Hazard pictograms Void**
 - **Signal word Void**
 - **Hazard statements Void**
 - **Precautionary statements**
P273 Avoid release to the environment.
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, 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), 1,2-benzisothiazol-3(2H)-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 Zinc pyrrithione and 2-octyl-2Hisothiasol-3-on (Art. 58, Reg. 528/2012/EC).
 - **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:**
Mixture of substances listed below with nonhazardous additions.
Main ingredients of TAKRIL are emulsions based on acrylate polymeric binders, fine calcite and alumosilicate fillers, titanium dioxide, thickening agents, supplements and water.

· **Dangerous components:**

CAS: 112-34-5 EINECS: 203-961-6	2-(2-butoxyethoxy)ethanol  Xi R36  Eye Irrit. 2, H319	< 1.0%
CAS: 13463-41-7 EINECS: 236-671-3	Pyrrithione zinc  T R23;  Xn R22  Acute Tox. 2, H330;  Acute Tox. 4, H302	< 0.05%
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%

(Contd. on page 3)

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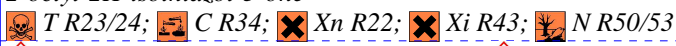
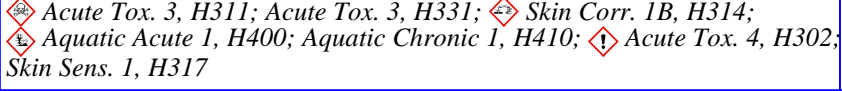
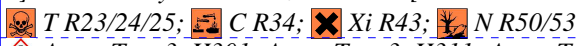
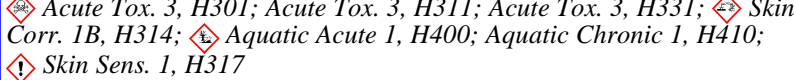
Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.08.2015

Revision: 07.04.2014

Trade name: TAKRIL

CAS: 26530-20-1 EINECS: 247-761-7	2-octyl-2H-isothiazol-3-one  	(Contd. of page 2) < 0.01%
	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)  	0.0014%

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**
- **General information:** No special measures required.
- **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.
- **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:** 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 measures required.
- **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.

(Contd. on page 4)

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

Printing date 17.08.2015

Revision: 07.04.2014

Trade name: TAKRIL

(Contd. of page 3)

- **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:**

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) (0.0014%)

WEL Long-term value: 0.05 mg/m³

26530-20-1 2-octyl-2H-isothiazol-3-one (0.01%)

WEL Long-term value: 0.05 mg/m³

112-34-5 2-(2-butoxyethoxy)ethanol (1.0%)

WEL Short-term value: 101.2 mg/m³, 15 ppm
Long-term value: 67.5 mg/m³, 10 ppm

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

· 8.2 Exposure controls

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

- **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 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.

GB

(Contd. on page 5)

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

Printing date 17.08.2015

Revision: 07.04.2014

Trade name: TAKRIL

(Contd. of page 4)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour:	Different according to colouring
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value at 20 °C: 10

· 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.

· 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:	1.4 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:	0.0 %
VOC (EC)	2.85 %
	VOC content: max 40 g/L
	(the product is a subject to the Directive 2004/42/EC as a coating of cat. A/c)

Solids content: 58.0 %

· 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.

(Contd. on page 6)

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

Printing date 17.08.2015

Revision: 07.04.2014

Trade name: TAKRIL

(Contd. of page 5)

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

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

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rabbit)

- **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:**
 - 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.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **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** Smaller quantities can be disposed of with household waste.

· **European waste catalogue**

08 01 12	waste paint and varnish other than those mentioned in 08 01 11
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
15 01 02	plastic packaging

(Contd. on page 7)

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

Printing date 17.08.2015

Revision: 07.04.2014

Trade name: TAKRIL

(Contd. of page 6)

- **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	TAKRIL is not classified as a substance or compound which would be dangerous for transport in accordance with provisions of ADR.
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR	
· Class	- (-)
· ADN/R 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 Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	-
· UN "Model Regulation":	UN-, -

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 not classified as a dangerous substance or mixture, but it may produce an allergic reaction.

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.

(Contd. on page 8)

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

Printing date 17.08.2015

Revision: 07.04.2014

Trade name: TAKRIL

(Contd. of page 7)

· 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.
 H319 Causes serious eye irritation.
 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.
 R36 Irritating to eyes.
 R38 Irritating to skin.
 R41 Risk of serious damage to eyes.
 R43 May cause sensitisation by skin contact.
 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. 4: Acute toxicity, Hazard Category 4
 Acute Tox. 3: Acute toxicity, Hazard Category 3
 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
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

(Contd. on page 9)

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

Printing date 17.08.2015

Revision: 07.04.2014

Trade name: TAKRIL

(Contd. of page 8)

*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1***· * Data compared to the previous version altered.***Version 1.0, 10.07.2013.**Version 2.0, 13.02.2015; Amending Chapter: 2., 3., 8., 11., 12., 15., 16.*

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