Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

Date of issue/ Date of : 21-04-2017 Date of previous issue : 27-10-2016

revision



## SAFETY DATA SHEET

**TEMAFLOOR 210 CLEAR** 

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

1.1 Product identifier

Product name : TEMAFLOOR 210 CLEAR

**Product description**: A two-component solvent-free epoxy clear lacquer.

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

Recommended use: Painting work

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer or Distributor** 

Tikkurila Oyj P.O. Box 53 FI-01301 VANTAA FINLAND

Telephone +358 20 191 2000

e-mail address of person : Tikkurila Oyj, responsible for this SDS : Product Safety,

e-mail: productsafety@tikkurila.com

#### 1.4 Emergency telephone number

Telephone number : 112

(24h)

**Supplier or Manufacturer** 

Telephone number : Fikkurila Oyj

+358 20 191 2000 (GMT +2) Mon-Fri 8-16

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

#### 2.2 Label elements

Hazard pictograms :





Signal word : Warning

**Hazard statements** : H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

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General : Not applicable.

**Prevention**: P261 - Avoid breathing vapor.

P280 - Wear protective gloves/clothing and eye/face protection. P284 - In case of inadequate ventilation wear respiratory protection.

P273 - Avoid release to the environment.

**Response** : P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : poxy resin (mw < 700)

C10-C16 alkyl glycidyl ether polypropyleneglycol diglycidyl ether

Supplemental label

elements

: Not applicable.

#### 2.3 Other hazards

Other hazards which do not result in classification

: None known.

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture	ı	i	1
			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
poxy resin (mw < 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥75 - ≤90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
C10-C16 alkyl glycidyl ether	EC: 268-358-2 CAS: 68081-84-5	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≤5	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	-
polypropyleneglycol diglycidyl ether	CAS: 9072-62-2	≤3	Skin Sens. 1, H317 See Section 16 for the full text of the H statements declared above.	-

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Show this

safety data sheet or label to the doctor if possible.

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with plenty of

lukewarm water, keeping eyelids open. Continue to rinse for at least 15 minutes.

Get medical attention if symptoms occur.

**Inhalation**: Remove to fresh air. Keep person warm and at rest.

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Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Get medical attention if symptoms occur.</li> </ul>
Ingestion	: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Remove to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting.

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#### 4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation.

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Causes serious eye irritation.

May cause an allergic skin reaction.

See Section 11 for more detailed information on health effects and symptoms.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO<sub>2</sub>, powders or water spray/mist.

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Unsuitable extinguishing media

: Do not use a direct water jet that could spread the fire.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: This product is not classified as flammable. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion products

: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Use water spray to keep fire-exposed containers cool. This material is hazardous to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

: Provide adequate ventilation. Avoid breathing vapor or mist. Avoid direct skin contact with product. See Section 8 for information on appropriate personal protective equipment.

6.2 Environmental precautions

: Hazardous to aquatic environment. Do not allow to enter drains, water courses or soil.

6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

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## SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing vapor. Avoid inhalation of dust from sanding. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product. Avoid release to the environment.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C ...+25°C. Store in accordance with local regulations.

7.3 Specific end use(s) : None.

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

procedures

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**DNELs/DMELs** 

No DNELs/DMELs available.

**PNECs** 

No PNECs available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn (see Personal protection for both components). Contains epoxy constituents. Skin contact with the product and exposure to spray mist and vapor should be avoided. Comply with the health and safety at work laws.

#### Individual protection measures

Eye/face protection

: Use safety eyewear designed to protect against splash of liquids (EN166).

**Hand protection** 

: Always wear approved protective gloves against chemicals. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Recommended glove material (EN374):

< 1 hour (breakthrough time): nitrile rubber, butyl rubber

> 8 hours (breakthrough time): laminated foil

Not recommended: PVC or natural rubber (latex) gloves

Skin protection

: Wear suitable protective clothing.

Respiratory protection

: If ventilation is inadequate, use respirator that will protect against dust/mist. Wear a half mask or full face respirator with gas and vapor filter A and dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.

**Environmental exposure** controls

: For information regarding environmental protection measures, please refer to section 13 for waste handling, section 7 for handling and storage and section 1.2 for relevant identified uses of the substance or mixture and uses advised against.

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## SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Color : Clear. Odor : Strong.

Odor threshold Not relevant for the hazard assessment of the product. Not relevant for the hazard assessment of the product.

Melting point/freezing point : 75,4°C (benzyl alcohol) Initial boiling point and : 205,3°C (benzyl alcohol)

boiling range

: >100 °C Flash point

: 0.007 (butyl acetate = 1) (benzyl alcohol) **Evaporation rate** : Not applicable. Product is a liquid. Flammability (solid, gas)

Upper/lower flammability or

: Lower: 1,3% (benzyl alcohol) explosive limits Upper: 13% (benzyl alcohol)

0,023 kPa [room temperature] (benzyl alcohol) Vapor pressure

: 3,7 (benzyl alcohol) Vapor density

**Density** : 1,1 g/cm<sup>3</sup>

: insoluble in water. Solubility(ies) Partition coefficient: n-octanol/: Not available.

**Auto-ignition temperature** : #36°C (benzyl alcohol)

**Decomposition temperature** : Not relevant for the hazard assessment of the product. **Viscosity** : Not relevant for the hazard assessment of the product.

**Explosive properties** : No explosive ingredients present. Oxidizing properties : No oxidizing ingredients present.

#### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

: See Section 10.5. 10.1 Reactivity

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Avoid extreme heat and freezing.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

> oxidizing agents strong acids strong alkalis

10.6 Hazardous decomposition products : When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

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## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

There is no testdata available on the product itself.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies.

**Acute toxicity** 

Product/ingredient name	Result	Species	Dose	Exposure
penzyl alcohol	LC50 Inhalation Dusts and mists	Rat	4,178 mg/l	4 hours
	LD50 Oral	Rat	1230 mg/kg	-

Not classified.

Irritation/Corrosion

Causes skin irritation. Causes serious eye irritation.

Sensitization

May cause an allergic skin reaction.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

**Teratogenicity** 

Not classified.

Specific target organ toxicity (single exposure)

Not classified.

Specific target organ toxicity (repeated exposure)

Not classified.

**Aspiration hazard** 

Not classified.

## **SECTION 12: Ecological information**

Ecological testing has not been conducted on this product.

Do not allow to enter drains, water courses or soil.

The product is classified as environmetally hazardous according to Regulation (EC) 1272/2008.

Toxic to aquatic life with long lasting effects.

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
poxy resin (mw < 700)	EC50 9,4 mg/l	Algae	72 hours
	EC50 1,7 mg/l	Daphnia	48 hours
	LC50 1,5 mg/l	Fish	96 hours

## 12.2 Persistence and degradability

: No specific data.

## 12.3 Bioaccumulative potential

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Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
enzyl alcohol	0,87	-	low

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#### 12.4 Mobility in soil

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Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable. vPvB : Not applicable.

**12.6 Other adverse effects** : Not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

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#### European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### **Packaging**

Methods of disposal

- : Empty packaging should be disposed of in accordance with national regulations.
- Special precautions
- : **Note!** The ready for use mixture of paint and hardener generates much heat. Allow the remainder of the mixture to harden in a safe place, e.g. in the open.

### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (mw < 700))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (mw < 700))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	Ш	III
14.5 Environmental hazards	Yes.	Yes.	Yes.

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user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

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the event of an accident or spillage.

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14.7 Transport in bulk according to Annex II of **MARPOL** and the IBC Code : Not available.

## **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations

**Europe inventory** : Not determined.

**VOC Directive** : This product is in scope of Directive 2004/42/CE.

15.2 Chemical Safety

**Assessment** 

: This product contains substances for which Chemical Safety Assessments are still

required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification **Justification** 

Skin Irrit. 2, H315 Calculation method Eve Irrit. 2, H319 Calculation method Skin Sens. 1. H317 Calculation method Aquatic Chronic 2, H411 Calculation method

Full text of abbreviated H

statements

: H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

Harmful if inhaled. H332

H411 Toxic to aquatic life with long lasting effects.

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Full text of classifications

[CLP/GHS]

: Acute Tox. 4, H302 Acute Tox. 4. H332 Aquatic Chronic 2, H411

Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317

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ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2

SKIN SENSITIZATION - Category 1

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#### Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

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