Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)

2015/830 - Europe

Date of issue/ Date of : 1/25/2018 Date of previous issue : 12/8/2016



## SAFETY DATA SHEET

**TEMAFLOOR AC601 CLEAR** 

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

#### 1.1 Product identifier

Product name : TEMAFLOOR AC601 CLEAR

**Product description**: A two-component solvent-free acrylic 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 : Tikkurila 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]

Flam. Liq. 2, H225 Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335

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

#### 2.2 Label elements

Hazard pictograms





Signal word : Danger

Version :3 1/9

Date of issue/Date of revision 25.01.2018 Date of previous issue 08.12.2016. TEMAFLOOR AC601 CLEAR

**Hazard statements** : H225 - Highly flammable liquid and vapor.

H302 - Harmful if swallowed. H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

**Precautionary statements** 

General : Not applicable.

Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. P261 - Avoid breathing vapor.

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

Response : F303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

P333 + P313 - If skin irritation or rash occurs, seek medical advice/attention.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : methyl methacrylate

dibutyl maleate

1,4-butanediol dimethacrylate N,N-Bis(2-hydroxypropyl)-p-toluidine

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

Product/ingredient	Identifiers	%	Classification  Regulation (EC) No.	Notes
name	identifiers	/6	1272/2008 [CLP]	Notes
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≥50 - <70	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	D
dibutyl maleate	REACH #: 01-2119523581-45 EC: 203-328-4 CAS: 105-76-0	<10	Skin Sens. 1, H317 STOT RE 2, H373	-
1,4-butanediol dimethacrylate	REACH #: 01-2119967415-30 EC: 218-218-1 CAS: 2082-81-7	<10	Skin Sens. 1B, H317	-
N,N-Bis(2-hydroxypropyl)-p-toluidine	REACH #: 01-2119980937-17 EC: 254-075-1 CAS: 38668-48-3	<2.5	Acute Tox. 2, H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	-
(2-hydroxy-4-methoxyphenyl) phenylmethanone	REACH #: 01-2119976330-39 EC: 205-031-5 CAS: 131-57-7	<2.5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	-
			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.

Version :3 2/9

Date of issue/Date of revision 08.12.2016. TEMAFLOOR AC601 CLEAR 25.01.2018 Date of previous issue

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

symptoms persist, seek medical attention. Show this safety data sheet or label to

: Take off immediately all contaminated clothing. In all cases of doubt, or when

the doctor if possible.

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

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. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel. Get medical attention.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners. Get

at rest in a position comfortable for breathing. Do NOT induce vomiting.

medical attention if symptoms occur.

: If accidentally swallowed rinse the mouth with plenty of water (only if the person is Ingestion

conscious) and obtain immediate medical attention. Remove to fresh air and keep

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

Harmful if swallowed.

Causes skin irritation.

May cause respiratory irritation.

May cause an allergic skin reaction.

Inhalation of vapours may cause dizziness, headache and nausea.

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

: Recommended: Alcohol resistant foam, CO<sub>2</sub> or powders.

Unsuitable extinguishing

: 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 : Highly flammable liquid and vapor. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion 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

: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not release runoff from fire to drains or

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.

Version :3 3/9

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

- 6.1 Personal precautions, protective equipment and emergency procedures
- : Shut off all ignition sources. No flares, smoking or flames in hazard area. 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
- : 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.

## SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

- : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. Avoid contact with skin and eyes. Avoid breathing vapor. Avoid inhalation of dust from sanding. Wear appropriate respirator when ventilation is inadequate. 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.
- 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). No smoking. Store and use away from heat, sparks, open flame or any other ignition source. Fill the container by approximately 90 % only as oxygen (air) is required for stabilisation. 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

Product/ingredient name	Exposure limit values
	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

Recommended monitoring procedures

: 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**

Version : 3 4/9

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. Use explosion-proof ventilation equipment. 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). 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).

Mways wear approved protective gloves against chemicals. Gloves should be Hand protection 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 1 - 4 hours (breakthrough time): butyl rubber > 8 hours (breakthrough time): laminated foil

Not recommended: PVC or natural rubber (latex) gloves

Skin protection : Wear suitable protective clothing. On handling of larger quantities also face shield. chemical-resistant boots, safety apron. This product is classified as flammable. If

necessary, personnel should wear antistatic clothing made of natural fibers or of

high-temperature-resistant synthetic fibers.

Respiratory protection : If ventilation is inadequate, use respirator that will protect against organic vapor and

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.

## SECTION 9: Physical and chemical properties

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

**Appearance** 

**Physical state** : Liquid. Color : Blue. 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 Initial boiling point and

boiling range

: -48°C (methyl methacrylate) : 100.36°C (methyl methacrylate)

Flash point : 10°C (methyl metacrylate)

**Evaporation rate** : Not relevant due to the nature of the product.

Flammability (solid, gas) : Not applicable. Product is a liquid. Upper/lower flammability or : Lower: 1.7% (methyl methacrylate) Upper: 12.5% (methyl methacrylate) explosive limits

ca.40 hPa (20 °C) Vapor pressure

Vapor density 3.5 (methyl methacrylate)

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

Solubility(ies) : ca. 20 g/l (20°C) (water)

Partition coefficient: n-octanol/ : Not available.

water

**Auto-ignition temperature** : 400°C (methyl methacrylate)

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

Version : 3 5/9 Date of issue/Date of revision 25.01.2018 Date of previous issue 08.12.2016. TEMAFLOOR AC601 CLEAR

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

**10.1 Reactivity** : See Section 10.5.

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

10.3 Possibility of hazardous reactions

: May present an explosion hazard when material is suspended in air in confined areas or equipment and subjected to spark, heat or flame.

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances or heavy metal iones.

10.4 Conditions to avoid

: Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or flame). If the permissible storage period or storage temperature is exceeded, the product may polymerize with heat evolution.

10.5 Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions: peroxides reducing agents

strong addis strong alkalis amines

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.

## **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.

Long term exposure to product vapors may result in adverse health effect such as mucous membrane and respiratory system irritation. Symptoms and signs include headache and dizziness. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. If splashed in the eyes, the liquid may cause irritation and reversible damage.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
M,N-Bis(2-hydroxypropyl)-p-toluidine	LD50 Oral	Rat	25 mg/kg	-

Harmful if swallowed.

Irritation/Corrosion

Causes skin irritation.

Sensitization

May cause an allergic skin reaction.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

**Teratogenicity** 

Version : 3 6/9

Date of issue/Date of revision 25.01.2018 Date of previous issue 08.12.2016. TEMAFLOOR AC601 CLEAR

Not classified.

Specific target organ toxicity (single exposure)

May cause respiratory irritation.

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 not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

**12.1 Toxicity** : No specific data.

Not available.

12.2 Persistence and

degradability

: No specific data.

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	Bioconcentration factor [BCF]	Potential
-hydroxy-4-methoxyphenyl) phenylmethanone	3.79	39 to 160	low
dibutyl maleate	3.39	1.91	low
methyl methacrylate	1.38	-	low

#### 12.4 Mobility in soil

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.

#### 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.

Version :3 7/9

Date of issue/Date of revision 25.01.2018 Date of previous issue 08.12.2016. TEMAFLOOR AC601 CLEAR

**Packaging** 

Empty packaging should be recycled or disposed of in accordance with national Methods of disposal

regulations.

Note! The ready for use mixture of paint and hardener generates much heat. Allow Special precautions

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	UN1866	UN1866	UN1866
14.2 UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	Resin solution
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.
Additional information	Hazard identification number 33  Limited quantity 5 L  Special provisions 640D  Tunnel code (D/E)	Emergency schedules (EmS) F-E,S-E	Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 353 Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 364 Limited Quantities - Passenger Aircraft Quantity limitation: 1 L Packaging instructions: Y341  Special provisions A3

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

the event of an accident or spillage.

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.

Version :3 8/9

#### 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.

1272/2008]

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]

Flam. Liq. 2, H225

Acute Tox. 4, H302

Skin Irrit. 2, H315

Skin Sens. 1, H317

STOT SE 3, H335

On basis of test data
Calculation method
Calculation method
Calculation method
Calculation method

Classification

Full text of abbreviated H

statements

: H225 Highly flammable liquid and vapor.

H300 Fatal if swallowed.H302 Harmful if swallowed.H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

Acute Tox. 2, H300 ACUTE TOXICITY (oral) - Category 2
Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
Aquatic Acute 1, H400 AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 2, H411 AQUATIC HAZARD (LONG-TERM) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 3

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
Skin Sens. 1B, H317 SKIN SENSITIZATION - Category 1B

STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) (Respiratory tract irritation) - Category 3

**Justification** 

Date of issue/ Date of

revision

: 1/25/2018

Date of previous issue : 12/8/2016

Version : 3

#### Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 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.

Version : 3 9/9