Conforms to Regulation (EC) No. 1907/2006 (REACH),	Annex II, as an	nended	by Co	ommission Re	gulation (EU)
2015/830 - Europe						
Data of taxing Data of		_				10/0/0010

Date of issue/ Date of revision

: 1/25/2018

Date of previous issue

: 12/8/2016



SAFETY DATA SHEET

TEMAFLOOR AC502

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

1.1 Product identifier	
Product name	: TE

Product description

TEMAFLOOR AC502

: 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	: I ∕ikkurila 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

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

: Mixture

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

2.2 Label elements

Hazard pictograms



Signal word

Date of issue/Date of revision	25.01.2018 Date of previous issue 08.12.2016. TEMAFLOOR AC502
Hazard statements	 H225 - Highly flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H412 - Harmful to aquatic life with long lasting effects.
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. P273 - Avoid release to the environment. 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 2-ethylhexyl acrylate triethylene glycol dimethacrylate
Supplemental label elements	: Contains small amounts of sensitizing substances: 2-ethylhexyl mercaptoacetate

2.3 Other hazards

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
prethyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≥20 - <30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	D
2-ethylhexyl acrylate	REACH #: 01-2119453158-37 EC: 203-080-7 CAS: 103-11-7	≥25 - <30	Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	D
triethylene glycol dimethacrylate	REACH #: 01-2119969287-21 EC: 203-652-6 CAS: 109-16-0	<10	Skin Sens. 1B, H317	-
N,N-Bis(2-hydroxypropyl)-p-toluidine	REACH #: 01-2119980937-17 EC: 254-075-1 CAS: 38668-48-3	<1	Acute Tox. 2, H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	-
N,N-dimethyl-p-toluidine	EC: 202-805-4 CAS: 99-97-8 Index: 612-056-00-9	<0.25	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 3, H412	С
2-ethylhexyl mercaptoacetate	REACH #: 01-2119442696-30 EC: 231-626-4 CAS: 7659-86-1	<0.25	Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) 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 m	leasures
General	: Take off immediately all contaminated clothing. 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. 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 medical attention if symptoms occur.
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.

4.2 Most important symptoms and effects, both acute and delayed

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	: R ecommended: Alcohol resistant foam, CO₂ or powders.
Unsuitable extinguishing media	: Do not use a direct water jet that could spread the fire.
5.2 Special hazards arising	om the substance or mixture
Hazards from the substance or mixture	: Highly flammable liquid and vapor. Fire will produce dense black smoke. Exposu 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. This material is hazardous to aquatic organism

being discharged to any waterway, sewer or drain.

Fire water contaminated with this material must be contained and prevented from

Date of issue/Date of revision	25.01.2018 Date of previo	ous issue 08.12.2016.	TEMAFLOOR AC502
Special protective equipment for fire-fighters			quipment and self-contained operated in positive pressure
SECTION 6: Accider	tal release measu	res	
6.1 Personal precautions, protective equipment and			flames in hazard area. Provide st. 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.

SECTION 7: Handling and storage

emergency procedures

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

Date of issue/Date of revision	25.01.2018 Date of previous issue	08.12.2016.	TEMAFLOOR AC502
Recommended monitoring procedures	: If this product contains ingredient atmosphere or biological monitori of the ventilation or other control i protective equipment.	ng may be requi	red to determine the effectiveness
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. 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).
Hand protection	 Mways 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 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.
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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

···· ···· ···· ··· ··· · · · · · · · ·	and a second properties
Appearance	
Physical state	: Liquid.
Color	: Colorless.
Odor	: Strong.
Odor threshold	: Not relevant for the hazard assessment of the product.
рН	: Not relevant for the hazard assessment of the product.
Melting point/freezing point	: -48°C (methyl methacrylate)
Initial boiling point and boiling range	: 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 explosive limits	:
Vapor pressure	: 🖻 🛱 : 20 °C)

Date of issue/Date of revision	25.01.2018 Date of previous issue	08.12.2016.	TEMAFLOOR AC502
Vapor density	: 3.5 (methyl methacrylate)		
Density	: 0.98 g/cm³		
Solubility(ies)	: 🙍.20 g/l (20 °C) (water)		
Partition coefficient: n-octanol/ water	: Not available.		
Auto-ignition temperature	: 400°C (methyl methacrylate)		
Decomposition temperature	: Not relevant for the hazard as	ssessment of the	product.
Viscosity	: Not relevant for the hazard as	ssessment of the	product.
Explosive properties	: No explosive ingredients pres	sent.	
Oxidizing properties	: No oxidizing ingredients pres	ent.	

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 acids 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
₩,N-Bis(2-hydroxypropyl)-p- toluidine	LD50 Oral	Rat	25 mg/kg	-
N,N-dimethyl-p-toluidine	LD50 Oral	Mouse	139 mg/kg	-
2-ethylhexyl mercaptoacetate	LD50 Oral	Rat	303 mg/kg	-

Not classified.

Irritation/Corrosion

Causes skin 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) 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 classified as environmetally hazardous according to Regulation (EC) 1272/2008. Harmful to aquatic life with long lasting effects.

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethylhexyl acrylate	EC50 17.45 mg/l	Daphnia	48 hours
N,N-dimethyl-p-toluidine	LC50 100 mg/l	Fish	96 hours

12.2 Persistence and : No specific data. **degradability**

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
-ethylhexyl mercaptoacetate	4.7	-	high
N,N-dimethyl-p-toluidine	1.729	33	low
triethylene glycol dimethacrylate	1.88	-	low
2-ethylhexyl acrylate	4.64	-	high
methyl methacrylate	1.38	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

Date of issue/Date of revision	25.01.2018 Date of previous issue	08.12.2016.	TEMAFLOOR AC502	
12.5 Results of PBT and vP	vB assessment			
РВТ	: 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.
Packaging
Methods of disposal
Empty packaging should be recycled or disposed of in accordance with patienal

Methods of disposal	:	Empty packaging should be recycled or disposed of in accordance with national regulations.
Special precautions	:	Note! The ready for use mixture of paint and hardener generates much heat. Allow

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	ΙΑΤΑ
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	Ш	II	11
14.5 Environmental hazards	No.	No.	No.
Additional information	Hazard identification number 33Limited quantity 5 LSpecial provisions 640DTunnel 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

Date of issue/Date of revision	25.01.2018 Date of previous issue	08.12.2016.	TEMAFLOOR AC502	
			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 : Not available. according to Annex II of MARPOL and the IBC Code

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.				
Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects	
₩,N-dimethyl-p-toluidine	Carc. 2, H351	-	-	-	
VOC Directive 15.2 Chemical Safety Assessment	 This product is in scope of Directive 2004/42/CE. This product contains substances for which Chemical Safety Assessments are still required. 				

SECTION 16: Other information

Indicates information	t 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 deriv	the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Cla	sification Justification
Flam. Liq. 2, H225 Skin Irrit. 2, H315	On basis of test data Calculation method

Skin Imit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412		Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	: F225 H300 H301 H302 H311 H315 H317 H319 H330 H335 H351 H373 H400 H410 H412	 Highly flammable liquid and vapor. Fatal if swallowed. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

Date of issue/Date of revision	25.01.2018 Date of previous issue 08.12.2016. TEMAFLOOR AC502
Full text of classifications [CLP/GHS]	 Keute Tox. 2, H300 ACUTE TOXICITY (oral) - Category 2 Acute Tox. 3, H301 ACUTE TOXICITY (inhalation) - Category 2 Acute Tox. 3, H301 ACUTE TOXICITY (oral) - Category 3 Acute Tox. 4, H302 Acute TOXICITY (oral) - Category 4 Aquatic Acute 1, H400 AQUATIC HAZARD (ACUTE) - Category 1 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 2 Carc. 2, H351 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Skin Sens. 1, H317 SKIN CORROSION/IRRITATION - Category 1 Skin Sens. 1B, H317 SKIN SENSITIZATION - Category 1B STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (SINGLE
Date of issue/ Date of revision	EXPOSURE) (Respiratory tract irritation) - Category 3 : 1/25/2018
Date of previous issue	: 12/8/2016
Version	: 2

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.