

TEMAFLOOR 400

Date 2.12.2009

Previous date: 3.7.2007

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the article**

1.1.1 Commercial Product Name
TEMAFLOOR 400

1.1.2 Product code
008 4403

1.2 Use of the Substance/Preparation**1.2.1 Intended use**

Painting work.

Description: A two component solvent free epoxy varnish, base part.

1.3 Identification of the company**1.3.1 Supplier**

Tikkurila Oyj

1.3.2 Contact information:

P.O.Box P.O.Box 53
Postcode and post office FI-01301 VANTAA
FINLAND
Telephone +358 9 857 71
Telefax +358 9 8577 6936

1.3.4 Responsible for the Safety Data Sheet:

Tikkurila Oy, Product Safety, e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

Tikkurila Oy, Environment and Safety: +358 9 857 71

2. HAZARDS IDENTIFICATION

Harmful, Xn

Dangerous for the environment, N

Harmful by inhalation and if swallowed. Irritating to eyes and skin. May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information on hazard labelling in section 15.1.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Hazardous components**

3.1.1		3.1.2	3.1.3	3.1.4
CAS number	EINECS	Chemical name of the substance	Concentration	Classification
25068-38-6	500-033-5	Epoxy resin (mw < 700)	50 - 75 %	Xi, N; R36/38-43-51/53
100-51-6	202-859-9	Benzyl alcohol	25 - 50 %	Xn; R20/22

4. FIRST AID MEASURES**4.1 Additional advice**

In all cases of doubt, or when symptoms persist, seek medical attention.

4.2 Inhalation

Remove to fresh air, keep patient warm and at rest.

4.3 Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser.>>

TEMAFLOOR 400

Date 2.12.2009

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- 4.4 Eye contact**
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
- 4.5 Ingestion**
If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media**
Use foam, CO₂, powder or water spray.
- 5.2 Extinguishing media which must not be used for safety reasons**
Waterjet
- 5.3 Specific hazards**
Fire will produce dense black smoke, which contains decomposition products. Avoid breathing the smoke.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions**
Avoid skin contact with the product.
- 6.2 Environmental precautions**
Do not allow to enter drains or water courses.
- 6.3 Methods for cleaning up**
Contain and collect spillage with non-combustible absorbent materials, e.g. sand or vermiculite and place in a container for disposal according to local regulations. Clean preferably with a detergent; avoid the use of solvents.

7. HANDLING AND STORAGE

- 7.1 Handling**
Good ventilation must be provided. Keep away from sources of ignition. Take precautionary measures against static discharges.
- 7.2 Storage**
Keep containers tightly closed. Store in a cool, dry, well ventilated place away from sources of heat and direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.2 Exposure controls**
- 8.2.1 Occupational exposure controls**
Provide adequate ventilation. Comply with the health and safety at work laws.
- 8.2.1.1 Respiratory protection**
Use appropriate certified respirators, with gas and vapour filter A, during sanding with dust filter P2, if ventilation is insufficient.
- 8.2.1.2 Hand protection**
Always wear approved protective gloves (e.g. nitrile rubber) against chemicals. Barrier creams may also help to protect the exposed areas of the skin.
- 8.2.1.3 Eye protection**
Safety eyewear must be used, specially during the mixing of the components.
- 8.2.1.4 Skin and body protection**
Use suitable protective clothing.

TEMAFLOOR 400

Date 2.12.2009

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	General Information (appearance, odour)	
	Viscous liquid	
9.2	Important Health Safety and Environmental Information	
9.2.2	Boiling point/range	-
9.2.3	Flash point	-
9.2.5	Explosive properties	
9.2.5.1	Lower explosion limit	-
9.2.5.2	Upper explosion limit	-
9.2.7	Vapour pressure	-
9.2.8	Relative density	1,12
9.2.9	Solubility	
9.2.9.1	Water solubility	Insoluble

10. STABILITY AND REACTIVITY

10.1	Conditions to avoid	
	If solvents are used to lower the viscosity, it should be noticed, that solvent vapours may form explosive mixtures with air.	
10.2	Materials to avoid	
	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.	
10.3	Hazardous decomposition products	
	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.	

11. TOXICOLOGICAL INFORMATION

11.1	Acute toxicity	
	Harmful by inhalation and if swallowed.	
11.2	Primary irritation	
	See section 11.5.	
11.3	Sensitisation	
	Exposure by inhalation and skin contact may cause sensitization. Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be a skin and respiratory sensitizer and an irritant. It contains low molecular 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.	
11.5	Human experience	
	11.5.1 Inhalation: Long term exposure causes irritation of respiratory system and mucous membranes of nose and throat.	
	11.5.2 Skin contact: Splashes may cause skin and eye irritation.	
	11.5.3 Other effects: Harmful if taken internally.	

12. ECOLOGICAL INFORMATION

12.1	Ecotoxicity	
12.1.1	Aquatic toxicity	
	Epoxy resin (mw < 700): LC50 = 1,5-7,7 mg/l, onchorynchus mykiss; toxic. EC50 = 1,0 mg/l, daphnia magna; toxic. IC50 = 18 mg/l, green algae (selenastrum capricornutum), 72 h; harmful	
12.3	Persistence and degradability	

TEMAFLOOR 400

Date 2.12.2009

Previous date: 3.7.2007

12.3.1 Biodegradation

Epoxy resin (mw < 700): 2-3 %, 28 d, OECD 301D

12.4 Bioaccumulative potential

Epoxy resin (mw < 700): octanol/water partition coefficient log Pow = 2,8-4

12.6 Other adverse effects

There is no data available on the preparation itself. The product should not be allowed to enter drains or water courses.

13. DISPOSAL CONSIDERATIONS

13.1 Product residues: Gather residues into waste containers. Destroy according to the rules given by local authorities. EWC-code for liquid waste is e.g 08 01 11 (waste paint and varnish containing organic solvents or other dangerous substances). 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.

13.2 Packaging: Empty cans should be recycled or disposed of in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1	UN No	3082
14.2	Packing group	III
14.3	Land transport	
14.3.1	ADR/RID Class	9
14.3.3	Description of the goods	environmentally hazardous substance, liquid, N.O.S. (epoxy resin mw < 700)
14.4	Sea transport	
14.4.1	IMDG Class	9
14.4.2	Proper shipping name	environmentally hazardous substance, liquid, N.O.S. (epoxy resin mw < 700)
14.4.3	Further Information	EmS: F-A,S-F
14.5	Air transport	
14.5.1	ICAO/IATA Class	9
14.5.2	Proper shipping name	environmentally hazardous substance, liquid, N.O.S. (epoxy resin mw < 700)

15. REGULATORY INFORMATION**15.1 Information on the warning label****15.1.1 Letter code of the warning symbol and indications of danger for the preparation**

Xn	Harmful
N	Dangerous for the environment

15.1.2 Names of the ingredients given on the warning label

Epoxy resin (mw < 700)
Benzyl alcohol

15.1.3 R-phrases(s)

R20/22	Harmful by inhalation and if swallowed.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

15.1.4 S-phrases(s)

S24	Avoid contact with skin.
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TEMAFLOOR 400

Date 2.12.2009

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| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S29 | Do not empty into drains. |
| S36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |
| S51 | Use only in well-ventilated areas. |
| S61 | Avoid release to the environment. Refer to special instructions/safety data sheets. |

15.1.5 Special regulations on certain preparations

Contains epoxy constituents. See information supplied by the manufacturer.

16. OTHER INFORMATION**16.1 Full text of R-phrases referred to under sections 2 and 3**

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|--------|---|
| R20/22 | Harmful by inhalation and if swallowed. |
| R36/38 | Irritating to eyes and skin. |
| R43 | May cause sensitization by skin contact. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

16.4 Additional information

The information of this MSDS is based on the present state of our knowledge and on current EC laws. It is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

Additional information available from: Tikkurila Oy, Product Safety, P.O. Box 53, FIN-01301 VANTAA, FINLAND, Telephone +358 9 857 71, Fax +358 9 8577 6936, E-mail: productsafety@tikkurila.com

Signature

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