SAFETY DATA SHEET
TEMAFLOOR 210 CLEAR

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

1.1 Product identifier
- Product name: TEMA FLOOR 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
- Supplier or Manufacturer:
  Tikkurila Oyj
  P.O. Box 53
  FI-01301 VANTAA
  FINLAND
  Telephone +358 20 191 2000
- e-mail address of person responsible for this SDS:
  Product Safety,
  e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number
- Telephone number:
  112 (24h)
- Supplier or Manufacturer:
  Tikkurila Oyj
  +358 20 191 2000 (GMT +2) Mon-Fri 8-16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification 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:
  - !
  - ᵃ
- 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.
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:
- epoxy resin (mw < 700)
- C10-C16 alkyl glycidyl ether
- polypropylene glycol 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

| Product/ingredient name | Identifiers | %   | Classification
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>epoxy resin (mw &lt; 700)</td>
<td>REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6</td>
<td>≥75 - ≤90</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6</td>
<td>≤5</td>
<td>Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>polypropylene glycol diglycidyl ether</td>
<td>CAS: 9072-62-2</td>
<td>≤3</td>
<td>Skin Sens. 1, H317 See Section 16 for the full text of the H statements declared above</td>
</tr>
</tbody>
</table>

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.

Occasional 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.
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.
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, CO₂, powders or water spray/mist.

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.
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.

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

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.
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.
- pH: Not relevant for the hazard assessment of the product.
- Melting point/freezing point: 5,4°C (benzyl alcohol)
- Initial boiling point and boiling range: 205,3°C (benzyl alcohol)
- Flash point: >100 °C
- Evaporation rate: Not applicable. Product is a liquid.
- Flammability (solid, gas): Not applicable. Product is a liquid.
- Upper/lower flammability or explosive limits: Lower: 1,3% (benzyl alcohol) Upper: 13% (benzyl alcohol)
- Vapor pressure: 0,023 kPa [room temperature] (benzyl alcohol)
- Vapor density: 2,7 (benzyl alcohol)
- Density: 1,1 g/cm³
- Solubility(ies): Insoluble in water.
- Partition coefficient: n-octanol/water: 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

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: 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.
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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl alcohol</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>4,178 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1230 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

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 environmentally hazardous according to Regulation (EC) 1272/2008. Toxic to aquatic life with long lasting effects.

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy resin (mw &lt; 700)</td>
<td>EC50 9,4 mg/l</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>EC50 1,7 mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 1,5 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

No specific data.

12.3 Bioaccumulative potential
<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>Bioconcentration factor [BCF]</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl alcohol</td>
<td>0.87</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil
Soil/water partition coefficient (K<sub.oc</sub>) : 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)

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 01 11*</td>
<td>waste paint and varnish containing organic solvents or other hazardous substances</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN number</td>
<td>UN3082</td>
<td>UN3082</td>
<td>UN3082</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (mw &lt; 700))</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (mw &lt; 700))</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>Yes.</td>
<td>Yes.</td>
<td>Yes.</td>
</tr>
</tbody>
</table>
This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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.

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

This product contains substances for which Chemical Safety Assessments are still required.

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.
H332 Harmful if inhaled.
H411 Toxic to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]:

Acute Tox. 4, H302 - ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H332 - ACUTE TOXICITY (inhalation) - Category 4
Aquatic Chronic 2, H411 - AQUATIC HAZARD (LONG-TERM) - Category 2
Eye Irrit. 2, H319 - SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Skin Irrit. 2, H315 - SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317 - SKIN SENSITIZATION - Category 1

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Date of previous issue: 27-10-2016
Version: 2

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.