Conforms to Regulation (2020/878 - Europe	EC) No. 1907/2006 (REACH), Annex II, as amended by Commission	n Regulation (EU)
Date of issue/ Date of revision	: 8/23/2022	Date of previous issue	: 12/21/2020

TIKKURILA

SAFETY DATA SHEET

TEMAFLOOR 210 CLEAR

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

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

 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]

₿kin 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

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Hazard statements		H319 - Causes serious eye irritat H315 - Causes skin irritation. H317 - May cause an allergic ski H411 - Toxic to aquatic life with l	n reaction.	S.
Precautionary statements	;			
General	: 1	Not applicable.		
Prevention		P261 - Avoid breathing vapor. P280 - Wear protective gloves/cl P284 - In case of inadequate ver P273 - Avoid release to the envir	ntilation wear resp	
Response	I	P302 + P352 - IF ON SKIN: Was P305 + P351 + P338 - IF IN EYE Remove contact lenses, if presei	S: Rinse cautious	sly with water for several minutes
Storage	: 1	Not applicable.	-	-
Disposal	: 1	Not applicable.		
Hazardous ingredients	(ofs-(4-(2,3-epoxypropoxy)phenyl Oxirane, mono((C13-15- alkyloxy polypropyleneglycol diglycidyl eth reaction product of bis(1,2,2,6,6- 1,2,2,6,6-pentamethyl-4-piperidy	/)methyl) derivate her pentamethyl-4-pi	
Supplemental label elements	: 1	Not applicable.		

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
pi€-(4-(2,3-epoxypropoxy)phenyl) propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥75 - ≤90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
Oxirane, mono((C13-15- alkyloxy) methyl) derivates	REACH #: 01-2119962192- 39 EC: 701-328-3 CAS: -	≥10 - ≤25	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	-
reaction product of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl- 1,2,2,6,6-pentamethyl- 4-piperidylsebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	<3	Skin Sens. 1A, H317 Repr. 2, H361f 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.	-

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

Specific concentration limits and ATE-values

Ingredient name, Specific concentration limits, ATE value

bi5-(4-(2,3-epoxypropoxy)phenyl)propane Eye Irrit. 2, H319: C ≥ 5 % Skin Irrit. 2, H315: C ≥ 5 %

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.

SECTION 4: First aid measures

4.1 Description of first aid measures					
General	n all cases of doubt, or when symptoms persist, seek medical attention. Show afety data sheet or label to the doctor if possible.	<i>w</i> this			
Eye contact	Check for and remove any contact lenses. Immediately flush eyes with plenty ukewarm water, keeping eyelids open. Continue to rinse for at least 15 minut 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 a vater or use recognized skin cleanser. Do NOT use solvents or thinners. Get nedical attention if symptoms occur.				
Ingestion	accidentally swallowed rinse the mouth with plenty of water (only if the perso onscious) and obtain immediate medical attention. Remove to fresh air and t 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		extinguishing agent suitable for the surrounding fire. Recommended: resistant foam, CO ₂ , powders or water spray/mist.
Unsuitable extinguishing media	Do not ι	use a direct water jet that could spread the fire.
5.2 Special hazards arising f	m the sut	stance or mixture
Hazards from the substance or mixture	•	duct is not classified as flammable. Fire will produce dense black smoke. The to decomposition products may cause a health hazard.
Substance of Inixture	Lyboau	e to decempeenten producte may eader a nearth nazara.
Hazardous combustion products	: When e	xposed to high temperatures, hazardous decomposition products may be d, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

5.3 Advice for firefighters

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

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Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate breathing apparatus (SCBA) with mode.			

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	:	Provide adequate ventilation. Avoid breathing vapor or mist. Avoid contact with skin and eyes. 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.

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

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Eye/face protection	:	Use safety eyewear designed to	protect against s	splash of liquids (EN166).
Hand protection	:	Always wear approved protective replaced regularly and if there is instructions and information prov maintenance and replacement m Recommended glove material (E < 1 hour (breakthrough time): nit > 8 hours (breakthrough time): la Not recommended: PVC or nat	any sign of dam ided by the glove ust be followed. N374): ile rubber, butyl aminated foil	age to the glove material. The e manufacturer on use, storage, rubber
Skin protection	:	Wear suitable protective clothing		
Respiratory protection	:	the use of motor-driven or air-fed	with gas and va 405:2001). Dur respirators is re fied respirator or	por filter A and dust filter P2 ing continuous and long-term work
Environmental exposure controls	:	For information regarding enviror section 13 for waste handling, se for relevant identified uses of the	ction 7 for hand	ing and storage and section 1.2

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.
рН	:	Not relevant for the hazard assessment of the product.
Melting point/freezing point	:	-15.4°C (benzyl alcohol)
Initial boiling point and boiling range	:	205.3°C (benzyl alcohol)
Flash point	:	>100 °C
Evaporation rate	:	0.007 (butyl acetate = 1) (benzyl alcohol)
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	:	0.0067 kPa [room temperature] (benzyl alcohol)
Vapor density	:	3.7 (benzyl alcohol)
Density	:	1.1 g/cm ³
Solubility(ies)		insoluble in water.
Partition coefficient: n-octanol/ water	:	Not applicable.
Auto-ignition temperature	:	436°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.
Particle characteristics Median particle size	:	Not applicable.

9.2 Other information

No additional information.

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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 hazard classes as defined in Regulation (EC) No 1272/2008

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
▶ enzyl 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.

The product contains sensitizing substances mentioned in sections 2 and 3.

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.

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11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not applicable.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

Cological testing has not been conducted on this product. The product is classified as environmetally hazardous according to Regulation (EC) 1272/2008. Toxic to aquatic life with long lasting effects.

: No specific data.

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

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Peaction product of bis (1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate and methyl- 1,2,2,6,6-pentamethyl- 4-piperidylsebacate	LC50 0.9 mg/l	Fish - Brachydanio rerio	96 hours
	LC50 0.97 mg/l	Fish - Lepomis macrochirus	96 hours

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
Peaction product of bis (1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate and methyl- 1,2,2,6,6-pentamethyl- 4-piperidylsebacate	-	9.65	low
benzyl alcohol	0.87	1.37	low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting : Not applicable. **properties**

12.7 Other adverse effects : Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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Methods of disposal
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: 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 **Special precautions**

: Empty packaging should be disposed of in accordance with national regulations.

: 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 or ID number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Paint)	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	Ш	111	
14.5 Environmental hazards	Yes.	Yes.	Yes.

Additional information

ADR/RID	:	This product is not regulated as a dangerous good when transported in sizes of \leq 5 L or \leq 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.
IMDG	:	This product is not regulated as a dangerous good when transported in sizes of \leq 5 L or \leq 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. Emergency schedules F-A,S-F
ΙΑΤΑ	:	This product is not regulated as a dangerous good when transported in sizes of \leq 5 L or \leq 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
14.6 Special precautions for user	:	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.

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14.7 Maritime transport in	: Not available.
bulk according to IMO	
instruments	

instruments				
SECTION 15: Regu	latory information			
15.1 Safety, health and env	vironmental regulations/legi	islation specific for the substance or mixture		
EU Regulation (EC) No. 1 Other EU regulations	907/2006 (REACH)			
Europe inventory	: Not determined.			
Persistent Organic Pollu Not listed.	<u>itants</u>			
VOC Directive	: This product is in scope	e of Directive 2004/42/CE.		
15.2 Chemical Safety Assessment	: This product contains s required.	substances for which Chemical Safety Assessments are still		
SECTION 16: Other	[·] information			
Indicates information that	t has changed from previous	y issued version.		
Abbreviations and	: ATE = Acute Toxicity E	stimate		
acronyms	CLP = Classification, La 1272/2008] DMEL = Derived Minim DNEL = Derived No Eff EUH statement = CLP- PBT = Persistent, Bioar PNEC = Predicted No F	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.		
	RRN = REACH Registr			
	•	t and Very Bioaccumulative		
Procedure used to derive t	the classification according	to Regulation (EC) No. 1272/2008 [CLP/GHS]		
Class	sification	Justification		
Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411		Calculation method Calculation method Calculation method Calculation method		
Full text of abbreviated H statements	H315 Causes skin i H317 May cause an H361f Suspected of H400 Very toxic to a H410 Very toxic to a	aled. us eye irritation. irritation. า allergic skin reaction. damaging fertility.		
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Eye Irrit. 2 Repr. 2 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1A		
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Version	: 4			
Notice to reader				

Notice to reader

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This Safety Data Sheet is prepared in accordance with Annex II (EU) No 878/2020 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.

21.12.2020.