Conforms to Regulation	(EC) No. 1907/2006 (F	REACH), Annex II, as amended by Commissio	on Regulation (EU)
2015/830 - Europe			
Date of issue/ Date of	: 2/20/2020	Date of previous issue	: 2/12/2018

revision

TIKKURI

2/20/2020

SAFETY DATA SHEET

TEMAFLOOR 500M HARDENER

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

1.1 Product identifier

Product name : TEMAFLOOR 500M HARDENER

Product description : Hardener.

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 DistributorTikkurila OyjP.O. Box 53FI-01301 VANTAAFINLANDTelephone +358 20 191 2000e-mail address of personresponsible for this SDS: Tikkurila Oyj,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

Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 The second state of the second secon

: Danger

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

2.2 Label elements

Hazard pictograms



Signal word Hazard statements

- : H314 Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction.
 - H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements				
General	:	Not applicable.		
Prevention	:	 ₱261 - Avoid breathing vapor. ₱273 - Avoid release to the enviro. ₱ 280 - Wear protective gloves/cl ₱284 - In case of inadequate ven 	othing and eye/fa	
Response	:	₱301 + P330 + P331 - IF SWALL P303 + P361 + P353 - IF ON SKI clothing. Rinse skin with water. P305 + P351 + P338 - IF IN EYE Remove contact lenses, if presen P310 - Immediately call a POISO	N (or hair): Take S: Rinse cautious t and easy to do.	off immediately all contaminated ly with water for several minutes. Continue rinsing.
Storage	:	Not applicable.		
Disposal	:	Not applicable.		
Hazardous ingredients	:	Propenenitrile reaction products products with benzaldehyde, dieth hydrogenated Formaldehyde, oligomeric reaction 1,3-benzenedimethanamine, N-(2 3-aminopropyldiethylamine	nylenetriamine an n products with p	d triethylenetetramine, henol
Supplemental label elements	:	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
Propenenitrile reaction products with ethylenediamine, hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine, hydrogenated	CAS: 1173092-74-4	≥50 - ≤75	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	-
Formaldehyde, oligomeric reaction products with phenol	EC: 500-005-2 CAS: 9003-35-4	≥10 - ≤25	Eye Irrit. 2, H319 Skin Sens. 1, H317	-
1,3-benzenedimethanamine, N- (2-phenylethyl) derivs.	CAS: 404362-22-7	<10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 (oral) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	-
3-aminopropyldiethylamine	EC: 203-236-4 CAS: 104-78-9 Index: 612-062-00-1	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	-
			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.

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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	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 20 minutes. Get medical attention immediately. Continue rinsing until medical attention can be obtained.
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. In case of chemical burns, get medical attention as soon as possible.
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 severe skin burns and eye damage. 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, CO_2 , 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 f	n the substance or mixture	
Hazards from the substance or mixture	This product is not classified as flammable. Fire will produce dense black smole Exposure to decomposition products may cause a health hazard.	ke.
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 hazardo 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.	!

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	: Provide adequate ventilation. Do not breathe vapor or mist. Do not get in eyes or on skin. Put on appropriate personal protective equipment (see Section 8).
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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection : Wear eye/face protection (EN166).

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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.
рН	:	Not relevant for the hazard assessment of the product.
Melting point/freezing point Initial boiling point and	-	Not available. Not available.
boiling range	•	
Flash point	:	>100 °C
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Density	:	1 g/cm³
Solubility(ies)	:	Not available.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
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.

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SECTION 10: Stabilit	y 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.

Kong term exposure causes irritation of respiratory system and mucous membranes of nose and throat. Prolonged contact can cause severe irritation or even burns. The liquid splashed in the eyes may cause irreversible damage. Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
3-aminopropyldiethylamine	LD50 Oral	Rat	550 mg/kg	-	

Not classified.

Irritation/Corrosion

Causes severe skin burns and eye damage.

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

	J
12.1 Toxicity Not available.	: No specific data.
12.2 Persistence and degradability	: No specific data.
12.3 Bioaccumulative potential	: No specific data.
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.

:	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 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

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN2735	UN2735	UN2735
14.2 UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (polyethylene polyamines)	AMINES, LIQUID, CORROSIVE, N.O.S. (polyethylene polyamines)	Amines, liquid, corrosive, n.o.s. (polyethylene polyamines)

14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	III	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Hazard identification number 80 Limited quantity 5 L Special provisions 274 Tunnel code (E)
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-A,S-B <u>Special provisions</u> 223, 274
IATA	 The environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 5 L Packaging instructions: 852. Cargo Aircraft Only: 60 L Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L Packaging instructions: Y841. Special provisions A3, A803
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.
14.7 Transport in bulk according to IMO instruments	: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and en	vironmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1	1907/2006 (REACH)
Other EU regulations	
Europe inventory	: Not determined.
VOC Directive	: This product is in scope of Directive 2004/42/CE.
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	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
2	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	e the classification according to Regulation (FC) No. 1272/2008 [CLP/GHS]

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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Class	ification	Justification
Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Calcul Calcul	ulation method ulation method ulation method ulation method
Full text of abbreviated H statements	H400 Very toxic to aquatic life	h skin. urns and eye damage. skin reaction. amage. ritation. o organs through prolonged or repeated exposure. ife. ife with long lasting effects.
Full text of classifications [CLP/GHS]	Aquatic Acute 1AQUAAquatic Chronic 1AQUAAquatic Chronic 2AQUAEye Dam. 1SERIOEye Irrit. 2SERIOFlam. Liq. 3FLAMSkin Corr. 1BSKINSkin Sens. 1SKINSTOT RE 2SPEC	TE TOXICITY - Category 4 ATIC HAZARD (ACUTE) - Category 1 ATIC HAZARD (LONG-TERM) - Category 1 ATIC HAZARD (LONG-TERM) - Category 2 IOUS EYE DAMAGE/ EYE IRRITATION - Category 2 IOUS EYE DAMAGE/ EYE IRRITATION - Category 2 MMABLE LIQUIDS - Category 3 I CORROSION/IRRITATION - Category 1B I SENSITIZATION - Category 1 CIFIC TARGET ORGAN TOXICITY (REPEATED OSURE) - Category 2
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Notice to reader		

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.