Conforms to Regulation	(EC) No. 1907/2006 (REACH), Annex II, as amended by Commission	on Regulation (EU)
2015/830 - Europe			
Date of issue/ Date of	: 7/7/2020	Date of previous issue	: 2/20/2020

TIKKURILA

revision

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		
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] Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 The product is classified as hererdown according to Regulation (EC) 1272/2009

: 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.

Precautionary statements

Date of issue/Date of revision		07.07.2020 Date of previous issue	20.02.2020.	TEMAFLOOR 500M HARDENER
General	:	Not applicable.		
Prevention	:	 ₱261 - Avoid breathing vapor. ₱280 - Wear protective gloves/cle ₱284 - In case of inadequate ven ₱273 - Avoid release to the environment. 	tilation wear resp	
Response	:	₱301 + P330 + P331 - IF SWALL P303 + P361 + P353 - IF ON SKI clothing. Rinse skin with water or P305 + P351 + P338, P310 - IF II minutes. Remove contact lenses Immediately call a POISON CEN	N (or hair): Take shower. N EYES: Rinse c , if present and e	e off immediately all contaminated cautiously with water for several casy to do. Continue rinsing.
Storage	:	Not applicable.		
Disposal	:	Not applicable.		
Hazardous ingredients	:	 Propenenitrile reaction products with ethylenediamine, hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine, hydrogenated phenol, reaction products with formaldehyde 1,3-benzenedimethanamine, N-(2-phenylethyl) derivs. 3-aminopropyldiethylamine 		
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	-
phenol, reaction products with formaldehyde	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.

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, 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.

07.07.2020 Date of previous issue

20.02.2020.

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).

Date of issue/Date of revision	07.07.2020 Date of previous issue 20.02.2020. TEMAFLOOR 500M HARDENER
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 wor 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.

20.02.2020.

TEMAFLOOR 500M HARDENER

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.

Long 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.

20.02.2020.

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.

12.1 Toxicity Not available.	U	:	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.

12.6 Other adverse effects :		Not available
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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

: **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)

	Transport rd class(es)	8	8	8	
14.4 grou	Packing p				
14.5 Envir haza	ronmental rds	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Addit	ional informati	on			1
	s <u> </u> 	 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) 			
И	Ē	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			
IJ	t <u>C</u> F	The environmentally hazardous substance mark may appear if required by other transportation regulations. <u>Quantity limitation</u> 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. <u>Special provisions</u> A3, A803			
14.6 Special preca user	ι	: 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 b according to IMO	oulk : N	: Not available.			

20.02.2020.

instruments

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.	
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.
-	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
Broodure used to derive	the electric properties to Perculation (EC) No. 1272/2009 [CLD/CHS]

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

Date of issue/Date of revision	07.07.2020 Date of previous issue	20.02.2020. TEMAFLOOR 500M HARDENER
Classi	fication	Justification
Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Calcu Calcu	ulation method ulation method ulation method ulation method
Full text of abbreviated H statements	H400 Very toxic to aquatic lif	h skin. urns and eye damage. skin reaction. amage. ritation. o organs through prolonged or repeated exposure. fe. fe with long lasting effects.
Full text of classifications [CLP/GHS]	Aquatic Acute 1AQU/ Aquatic Chronic 1AQU/ AQU/ Eye Dam. 1AQU/ SERIEye Irrit. 2SERIFlam. 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 1 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
Date of issue/ Date of revision	: 7/7/2020	, , ,
Date of previous issue	: 2/20/2020	
Version	: 2.01	
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.