Conforms to Regulation ((EC) No. 1907/2006 (REACH)	, Annex II, as amended by Commission	n Regulation (EU)
2015/830 - Europe			
Date of issue/ Date of	: 11/17/2021	Date of previous issue	: 7/7/2020

TIKKURILA

revision

SAFETY DATA SHEET

TEMAFLOOR 500M HARDENER

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

1.1	Pro	duct	iden	tifier

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 SDSresponsible for this SDSresponsible for this SDS

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]

Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 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

Date of issue/Date of revision	17.11.2021Date of previous issue07.07.2020.TEMAFLOOR 500M HARDENER
Hazard statements	 H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements	
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	 P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminate clothing. Rinse skin with water. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
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

: Mixture			
		Classification	
Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
CAS: 1173092-74-4	≥50 - ≤75	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	-
REACH #: 01-2120735197-51 EC: 500-005-2 CAS: 9003-35-4	≥10 - ≤25	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-
REACH #: 01-0000018826-60 EC: 445-790-1 CAS: 404362-22-7	<10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 (oral) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	-
REACH #: 01-2119965402-39 EC: 203-236-4 CAS: 104-78-9 Index: 612-062-00-1	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 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.	-
	Identifiers CAS: 1173092-74-4 REACH #: 01-2120735197-51 EC: 500-005-2 CAS: 9003-35-4 REACH #: 01-0000018826-60 EC: 445-790-1 CAS: 404362-22-7 REACH #: 01-2119965402-39 EC: 203-236-4 CAS: 104-78-9	Identifiers%CAS: 1173092-74-4 $\geq 50 - \leq 75$ CAS: 1173092-74-4 $\geq 50 - \leq 75$ REACH #: 01-2120735197-51 $\geq 10 - \leq 25$ EC: 500-005-2CAS: 9003-35-4REACH #: 01-0000018826-60 <10 EC: 445-790-1CAS: 404362-22-7CAS: 404362-22-7 ≤ 10 REACH #: 01-2119965402-39 ≤ 10 EC: 203-236-4 ≤ 10 CAS: 104-78-9 ≤ 10	Identifiers % Classification Identifiers % Regulation (EC) No. 1272/2008 [CLP] CAS: 1173092-74-4 ≥50 - ≤75 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 REACH #: 01-2120735197-51 EC: 500-005-2 CAS: 9003-35-4 ≥10 - ≤25 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 REACH #: 01-0000018826-60 EC: 445-790-1 CAS: 404362-22-7 <10

Date of	issue/Date	of revision
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17.11.2021 Date of previous issue

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.

07.07.2020.

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

Harmful if swallowed.

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 fr	om	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. 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	17.11.2021Date of previous issue07.07.2020.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 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

		and the second
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	:	Not available.
Initial boiling point and	:	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/cm ³
Solubility(ies)	:	Not available.
Partition coefficient: n-octanol/	:	Not applicable.
water		
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.
Particle characteristics		
Median particle size	;	Not applicable.

9.2 Other information

No additional information.

07.07.2020.

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
P-propenenitrile reaction products with ethylenediamine, hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine, hydrogenated	LD50 Oral	Rat	500 mg/kg	-
1,3-benzenedimethanamine, N-(2-phenylethyl) derivs.	LD50 Oral	Rat	500 mg/kg	-
3-aminopropyldiethylamine	LD50 Dermal	Rat	300 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-

Harmful if swallowed.

Irritation/Corrosion

Causes severe skin burns and eye damage.

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.

17.11.2021 Date of previous issue

07.07.2020.

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. The product is classified as environmetally hazardous according to Regulation (EC) 1272/2008. Very toxic to aquatic life with long lasting effects.

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

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Propenenitrile reaction products with ethylenediamine, hydrogenated, reaction products with benzaldehyde, diethylenetriamine and triethylenetetramine, hydrogenated	EC50 0.56 mg/l	Aquatic plants	72 hours
	EC50 2.7662 mg/l	Aquatic plants	72 hours
	NOEC 0.26 mg/l	Aquatic plants	72 hours
	NOEC 0.445 mg/l	Aquatic plants	72 hours

12.2 Persistence and degradability	: No specific data.
12.3 Bioaccumulative potential	: No specific data.
12.4 Mobility in soil Soil/water partition coefficient (K _{oc})	: 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.

12.6 Other adverse effects : Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	5
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)

Mobility

17.11.2021 Date of previous issue

TEMAFLOOR 500M HARDENER

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.

07.07.2020.

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		111	111
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

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	
ΙΑΤΑ	:	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.	

CTION 15. Pogulatory information

SECTION 15: Regu	ulatory information		
15.1 Safety, health and en EU Regulation (EC) No. Other EU regulations	nvironmental regulations/legislation specific for the substance or mixture 1907/2006 (REACH)		
Europe inventory	: Not determined.		
Persistent Organic Poll Not listed.			
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: Othe	r information		
Indicates information th	at has changed from previously issued version.		
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate 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 		
Procedure used to derive	the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]		
	sification Justification		
Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method		
Full text of abbreviated H statements	 Flammable liquid and vapor. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. 		
Full text of classifications [CLP/GHS]			

SKIN SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED

Skin Sens. 1

Skin Sens. 1A STOT RE 2

Date of issue/Date of revision	17.11.2021 Date of previous issue	07.07.2020.	TEMAFLOOR 500M HARDENER
	EXPO	SURE) - Category	2
Date of issue/ Date of revision	: 11/17/2021		
Date of previous issue	: 7/7/2020		
Version	: 3		
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.