Conforms to Regulation	(EC) No. 1907/2006 (RI	EACH), Annex II, as amended by Commissio	on Regulation (EU)
2015/830 - Europe			
Date of issue/ Date of	4/24/2019	Date of previous issue	: 4/21/2017

revision



SAFETY DATA SHEET

FONTEFLOOR EP HARDENER

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

1.1 Product identifier

: FONTEFLOOR EP HARDENER Product name

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 Distributor Tikkurila Ovi P.O. Box 53 FI-01301 VANTAA **FINLAND** Telephone +358 20 191 2000 e-mail address of person : Tikkurila Oyj, 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] 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

Signal word Hazard statements

: Warning

- : 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.

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Precautionary statements				
General	:	Not applicable.		
Prevention	:	 ▶261 - Avoid breathing vapor. ▶273 - Avoid release to the environe P280 - Wear protective gloves/clope ▶284 - In case of inadequate vertice 	othing and eye/fa	•
Response	:	▶302 + P352 - IF ON SKIN: Was P305 + P351 + P338 - IF IN EYE Remove contact lenses, if presen	S: Rinse cautiou	sly with water for several minutes.
Storage	:	Not applicable.		
Disposal	:	Not applicable.		
Hazardous ingredients	:	poxy resin (bisphenol F mw<700 epoxy resin (mw < 700) oxirane, mono[(C12-14-alkyloxy)r	,	
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
REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5	≥50 - ≤75	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥10 - ≤25	Skin Irrit. 2, H315 Skin Sens. 1, H317	-
		See Section 16 for the full text of the H statements declared above.	
	Identifiers REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5 REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2	Identifiers%REACH #: 01-2119454392-40 $\geq 50 - \leq 75$ EC: 500-006-8 $\geq 50 - \leq 75$ CAS: 9003-36-5 $\geq 25 - \leq 50$ REACH #: 01-2119456619-26 $\geq 25 - \leq 50$ EC: 500-033-5 $\geq 25 - \leq 50$ CAS: 25068-38-6 $\geq 10 - \leq 25$ REACH #: 01-2119485289-22 $\geq 10 - \leq 25$ EC: 271-846-8 $ CAS: 68609-97-2$	Identifiers%Classification Regulation (EC) No. 1272/2008 [CLP]REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5 $\geq 50 - \leq 75$ Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 $\geq 25 - \leq 50$ Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H317 Aquatic Chronic 2, H411REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 $\geq 25 - \leq 50$ Skin Irrit. 2, H315 Eye Irrit. 2, H317 Aquatic Chronic 2, H411REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4 $\geq 10 - \leq 25$ Skin Irrit. 2, H315 Skin Sens. 1, H317REACH #: 01-2119485289-22 Index: 603-103-00-4 $\geq 10 - \leq 25$ Skin Irrit. 2, H315 Skin Sens. 1, H317

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 15 minutes. Get medical attention if symptoms occur.
Inhalation	: Remove to fresh air. Keep person warm and at rest.

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Skin contact	: Remove contaminated clothing an water or use recognized skin clear medical attention if symptoms occ	nser. Do NOT ι	
Ingestion	: If accidentally swallowed rinse the conscious) and obtain immediate at rest in a position comfortable for	medical attentio	n. Remove to fresh air and keep

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, 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 from the substance or mixture

Hazards from the substance or mixture	: This product is not classified as flammable. Fire will produce dense blac Exposure to decomposition products may cause a health hazard.	ck smoke.
Hazardous combustion products	: When exposed to high temperatures, hazardous decomposition product produced, such as carbon monoxide and dioxide, smoke, oxides of nitro	

5.3 Advice for firefighters

Special protective actions for fire-fighters	aquatio	ater spray to keep fire-exposed containers cool. This material is hazardous to corganisms. Fire water contaminated with this material must be contained evented from being discharged to any waterway, sewer or drain.
Special protective equipment for fire-fighters		hters should wear appropriate protective equipment and self-contained ng apparatus (SCBA) with a full face-piece operated in positive pressure

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 water or 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. Do not allow to freeze. 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

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	l a	nd 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	:	Not available.
Initial boiling point and boiling range	:	Not available.
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	:	1.15 g/cm ³
Solubility(ies)	:	
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.

SECTION 10: Stability and reactivity **10.1 Reactivity** : See Section 10.5. : Stable under recommended storage and handling conditions (see Section 7). **10.2 Chemical stability** 10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions 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** : When exposed to high temperatures, hazardous decomposition products may be decomposition products 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 by inhalation may cause respiratory tract irritation. 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.

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

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
₽́poxy resin (bisphenol F mw<700)	EC50 1.8 mg/l	Algae	72 hours
	EC50 1.6 mg/l	Daphnia	48 hours
epoxy resin (mw < 700)	EC50 9.4 mg/l	Algae	72 hours
	EC50 1.7 mg/l	Daphnia	48 hours
	LC50 1.5 mg/l	Fish	96 hours
	LC50 2 mg/l	Fish	96 hours

12.2 Persistence and degradability

: No specific data.

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12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
øxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	160 to 263	low
epoxy resin (bisphenol F mw<700)	2.7	-	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 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.

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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

- : Empty packaging should be disposed of in accordance with national regulations.
- Special precautions : No additional information.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (mw < 700))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (mw < 700))	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin (mw < 700))
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	111	111	

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14.5 Environmental hazards	Yes.	Yes.	Yes.	
Additional inform	nation			
ADR/RID			d when transported in sizes al provisions of 4.1.1.1, 4.1	
IMDG	 This product is not regula or ≤5 kg, provided the para and 4.1.1.4 to 4.1.1.8. Emergency schedules F 	ckagings meet the gener	d when transported in sizes al provisions of 4.1.1.1, 4.1	
ΙΑΤΑ	: This product is not regula or ≤5 kg, provided the par 5.0.2.6.1.1 and 5.0.2.8.			s of ≤5 L
14.6 Special precautions for user	-	re that persons transport	port in closed containers th ing the product know what	
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	: Not available.			
SECTION 15. Pogulat	ory information			

SECTION 15: Regulatory information

15.1 Safety, health and envi	ironmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 19	07/2006 (REACH)
Other EU regulations Europe inventory	: All components are listed or exempted.
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 acronyms Procedure used to derive the c	1272/2008] DMEL = Derived Minimal DNEL = Derived No Effect EUH statement = CLP-sp PBT = Persistent, Bioacc PNEC = Predicted No Eff RRN = REACH Registrat vPvB = Very Persistent a	elling and Packaging F Effect Level ct Level becific Hazard statement sumulative and Toxic fect Concentration tion Number nd Very Bioaccumulation	ve
Classifica	•	()	Justification
Classifica			Justification
Skin Irrit. 2, H315		Calculation method	
Eye Irrit. 2, H319		Calculation method	
Skin Sens. 1, H317		Calculation method	
Aquatic Chronic 2, H411		Calculation method	

: H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
	H317 H319

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Full text of classifications [CLP/GHS]	 Aquatic Chronic 2, H411 AQUATIC HAZARD (LONG-TERM) - Category 2 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 AQUATIC HAZARD (LONG-TERM) - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1
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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.