Conforms to Regulation (E 2015/830 - Europe	EC) No. 1907/2006 (RE	EACH), Annex II, as amended by Commission	Regulation (EU)
Date of issue/ Date of revision	: 11/22/2021	Date of previous issue	: 4/24/2019

# TIKKURILA

## **SAFETY DATA SHEET**

FONTEFLOOR EP HARDENER

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

	1.1	Pro	duc	t ide	ntifier
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Product name : FONTEFLOOR EP 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]

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

: Warning

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Hazard statements	H31 H31	9 - Causes serious eye irrita 5 - Causes skin irritation. 7 - May cause an allergic sk 1 - Toxic to aquatic life with	in reaction.	s.
Precautionary statements				
General	: Not a	applicable.		
Prevention	P280 P284	1 - Avoid breathing vapor. ) - Wear protective gloves/c 4 - In case of inadequate ve 3 - Avoid release to the envi	ntilation wear resp	
Response	P305	2 + P352 - IF ON SKIN: Wa 5 + P351 + P338 - IF IN EYE love contact lenses, if prese	ES: Rinse cautious	sly with water for several minutes.
Storage	: Not a	applicable.		
Disposal	: Not a	applicable.		
Hazardous ingredients	pher bis-(		l)propane	-chloro-2,3-epoxypropane and
Supplemental label elements	: Not a	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			
			<b>Classification</b>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5	≥50 - ≤75	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
bis-(4-(2,3-epoxypropoxy)phenyl) propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
oxirane, mono[(C12-14-alkyloxy) methyl] derivs.	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.	

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 m	neasures
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.
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. Get medical attention if symptoms occur.</li> </ul>
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 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 f	rom	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.
<b>SECTION 6: Acciden</b>	ta	release measures
6.1 Personal precautions, protective equipment and		Provide adequate ventilation. Avoid breathing vapor or mist. Avoid contact with skin and eyes. See Section 8 for information on appropriate personal protective

emergency procedures	equipment.
6.2 Environmental precautions	: Hazardous to aquatic environment. Do not allow to enter drains, water courses or soil.

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6.3 Methods and materials for containment and cleaning up	: Contain and collect spillage with n earth, vermiculite or diatomaceous according to local regulations. Pre solvents.	s earth and place	e in container for disposal
6.4 Reference to other sections	: See Section 1 for emergency cont See Section 13 for additional wast		rmation.

## **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.

**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). 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	<ul> <li>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.</li> <li>Recommended glove material (EN374):</li> <li>1 hour (breakthrough time): nitrile rubber, butyl rubber</li> <li>8 hours (breakthrough time): laminated foil</li> <li>Not recommended: PVC or natural rubber (latex) gloves</li> </ul>
Skin protection	: Wear suitable protective clothing.

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Respiratory protection	the use of motor-driven or air-fed	with gas and va 1405:2001). Dur 1 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 handl	ing and storage and section 1.2

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

3.1 mormation on basic physica	a	na chemical properties
Appearance		
Physical state	:	Liquid.
Color	:	Clear.
Odor	:	Strong.
Odor threshold	:	Not relevant for the hazard assessment of the product.
рН	:	$\overrightarrow{N}$ ot relevant for the hazard assessment of the product.
Melting point/freezing point Initial boiling point and boiling range		Not available. 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 <sup>3</sup>
Solubility(ies)	:	Miscible in water.
Partition coefficient: n-octanol/ water	:	Not applicable.
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.

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.		

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10.5 Incompatible materials	rials : Keep away from the following materials to prevent st oxidizing agents strong acids strong alkalis		strong exothermic reactions:
10.6 Hazardous decomposition products	: When exposed to high temperate produced, such as carbon mono		

## **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.

Acute toxicity

Not classified.

Irritation/Corrosion

Causes skin irritation. Causes serious eye irritation.

Sensitization

 $\mathbf{M}$ ay 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.

## **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.

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

12.1 Toxicity	1	No specific data.
Not available.		
12.2 Persistence and degradability	:	No specific data.

12.3 Bioaccumulative potential

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Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
øxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	3.77	160 to 263	low
formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.7	-	low

#### 12.4 Mobility in soil

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

## 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.

24.04.2019.

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	HAZARDOUS SUBSTANCE,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Paint)	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Paint)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group			

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14.5 Environmental hazards	Yes		Yes.		Yes.
Additional infor	ation		•		·
ADR/RID	or ≤5				d when transported in sizes of ≤5 L ral provisions of 4.1.1.1, 4.1.1.2
IMDG	or ≤5 and 4		ickagings n		d when transported in sizes of ≤5 L al provisions of 4.1.1.1, 4.1.1.2
ΙΑΤΑ	or ≤5				d when transported in sizes of ≤5 L al provisions of 5.0.2.4.1,
14.6 Special precautions for user	uprig	•	ure that per	sons transport	port in closed containers that are ting the product know what to do in
14.7 Transport in bulk according to IMO instruments	Not a	vailable.			
SECTION 15: Regula	ory in	formation			
45.4 Sefety, bealth and anying				10 0 0	1.4

15.1 Safety, health and e EU Regulation (EC) No Other EU regulations	environmental regulations/legislation specific for the substance or mixture . 1907/2006 (REACH)
Europe inventory Persistent Organic Po Not listed.	: All components are listed or exempted. <u>Dilutants</u>
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	: 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 o	classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification

Skin Irrit. 2, H315Calculation methodEye Irrit. 2, H319Calculation methodSkin Sens. 1, H317Calculation methodAquatic Chronic 2, H411Calculation method

**Justification** 

Date of issue/Date of revision	22.11.2021 Date of previous	<b>issue</b> 24.04.2019.	FONTEFLOOR EP HARDENER
Full text of abbreviated H statements	<ul> <li>F319 Causes serious eye irritation.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>		
Full text of classifications [CLP/GHS]	: Aquatic Chronic 2 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1	SERIOUS EYE DAMA	ONG-TERM) - Category 2 GE/ EYE IRRITATION - Category 2 RITATION - Category 2 - Category 1
Date of issue/ Date of revision	: 11/22/2021		
Date of previous issue	: 4/24/2019		
Version	: 4		

#### 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.