2015/830 - Europe

Date of issue/ Date of : 7/13/2021 Date of previous issue : 3/10/2017 revision



## SAFETY DATA SHEET

**TEMAFLOOR P300 HARDENER** 

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

#### 1.1 Product identifier

Product name : TEMAFLOOR P300 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 Distributor** 

Tikkurila Oyj 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]

Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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

#### 2.2 Label elements

Hazard pictograms :





Signal word : Danger

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**Hazard statements**: H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H412 - Harmful 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 contaminated

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 : sophorone diamine

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-

2,3-epoxypropane, reaction products with 3-aminomethyl-

3,5,5-trimethylcyclohexylamine

Supplemental label

elements

: Not applicable.

benzyl alcohol

#### 2.3 Other hazards

Other hazards which do not result in classification

: None known.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification  Regulation (EC) No. 1272/2008 [CLP]	Notes
<b>s</b> ophorone diamine	REACH #: 01-2119514687-32 EC: 220-666-8 CAS: 2855-13-2 Index: 612-067-00-9	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	-
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	REACH #: 01-2119965165-33 EC: 500-101-4 CAS: 38294-64-3	≥10 - ≤25	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≤5	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318  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.

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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

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<sub>2</sub>, 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.

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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
- 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.

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). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

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

Version : 4 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

: Wear suitable protective clothing. Skin protection

: If ventilation is inadequate, use respirator that will protect against dust/mist. Wear Respiratory protection

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.

: Not relevant for the hazard assessment of the product. **Odor threshold** : Not relevant for the hazard assessment of the product.

Melting point/freezing point Initial boiling point and

boiling range

: 75.4°C (benzyl alcohol)

205.3°C (benzyl alcohol)

: **≥**100°C Flash point

: 0.007 (butyl acetate = 1) (benzyl alcohol) **Evaporation rate** 

: Not applicable. Product is a liquid. Flammability (solid, gas)

Upper/lower flammability or

explosive limits

: Lower: 1.3% (benzyl alcohol) Upper: 13% (benzyl alcohol)

Vapor pressure : 0.0067 kPa [room temperature] (benzyl alcohol)

3.7 (benzyl alcohol) Vapor density

Density 1 g/cm<sup>3</sup>

Solubility(ies) insoluble in water. Partition coefficient: n-octanol/: Not applicable.

water

**Auto-ignition temperature** : 436°C (benzyl alcohol)

**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.

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## **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 : Under n 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
sophorone diamine	LD50 Oral	Rat	1030 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	4.178 mg/l	4 hours
	LD50 Oral	Rat	1230 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Oral	Rat	1200 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.

Specific target organ toxicity (single exposure)

Not classified.

Specific target organ toxicity (repeated exposure)

Not classified.

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#### **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. Harmful to aquatic life with long lasting effects.

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine		Fish	96 hours

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
7.4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	OECD 301F	0 % - Not r	eadily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	-		-		Not rea	dily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
<b>2</b> ,4,6-tris (dimethylaminomethyl) phenol	0.219	-	low
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	-	5.13	low
benzyl alcohol	0.87	1.37	low
isophorone diamine	0.99	-	low

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#### 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.

#### 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.

#### 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 recycled or 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	IATA
14.1 UN number	UN2289	UN2289	UN2289
14.2 UN proper shipping name	ISOPHORONEDIAMINE	ISOPHORONEDIAMINE	Isophoronediamine
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	Ш	III	III
14.5 Environmental hazards	No.	No.	No.

#### **Additional information**

ADR/RID : **Hazard identification number** 80

**Limited quantity** 5 L Tunnel code (E)

**IMDG** : Emergency schedules F-A,S-B

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**IATA** 

: 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 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 environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations

**Europe inventory** : All components are listed or exempted.

**Persistent Organic Pollutants** 

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: 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 classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification Justification

Acute Tox. 4, H302Calculation methodSkin Corr. 1B, H314Calculation methodEye Dam. 1, H318Calculation methodSkin Sens. 1, H317Calculation methodAquatic Chronic 3, H412Calculation method

Full text of abbreviated H

statements

: H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

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.

H412 Harmful to aquatic life with long lasting effects.

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Full text of classifications : Acute

[CLP/GHS]

: Acute Tox. 4 ACUTE TOXICITY - Category 4
Aquatic Chronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3

Eye Dam. 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1C

Skin Sens. 1 SKIN SENSITIZATION - Category 1

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#### **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.

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