2015/830 - Europe

Date of issue/ Date of : 4/13/2022 Date of previous issue : 9/28/2018 revision



# **SAFETY DATA SHEET**

FONTEFLOOR PU CEM B

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

#### 1.1 Product identifier

Product name : FONTEFLOOR PU CEM B

Product description : Hardener.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Painting work

Only for industrial and professional use. The product is not intended for consumer use.

#### 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, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

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

#### 2.2 Label elements

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**Hazard pictograms** 





Signal word : Danger

**Hazard statements** H332 - Harmful if inhaled.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 - May cause an allergic skin reaction. H351 - Suspected of causing cancer. H335 - May cause respiratory irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

General : Not applicable.

Prevention : P260 - Do not breathe vapor.

> P280 - Wear protective gloves/clothing and eye/face protection. P284 - In case of inadequate ventilation wear respiratory protection.

: P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for Response

breathing.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or

physician.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P311 - If skin irritation occurs, seek medical advice/attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : Not applicable. : Not applicable. **Disposal** 

Hazardous ingredients : diphenylmethane-diisocyanate, isomeres and homologues

4,4'-methylenediphenyl diisocyanate 2,4'-methylenediphenyl diisocyanate 2,2'-methylenediphenyl diisocyanate

Supplemental label

elements

: Contains isocyanates. May produce an allergic reaction.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards

Other hazards which do not result in classification : None known.

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures : Mixture

			<u>Classification</u>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
prohenylmethane-diisocyanate, isomeres and homologues	EC: 618-498-9 CAS: 9016-87-9	≥50 - ≤75	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	-
4,4'-methylenediphenyl diisocyanate	REACH #: 01-2119457014-47	≥10 - ≤25	Acute Tox. 4, H332	C-2

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	EC: 202-966-0 CAS: 101-68-8 Index: 615-005-00-9		Eye Re Ski Ca ST	in Irrit. 2, H315 e Irrit. 2, H319 sp. Sens. 1, H334 in Sens. 1, H317 rc. 2, H351 OT SE 3, H335 OT RE 2, H373	
2,4'-methylenediphenyl diisocyanate	REACH #: 01-2119480143-45 EC: 227-534-9 CAS: 5873-54-1 Index: 615-005-00-9	≥10 - ≤25	Ski Eye Re Ski Ca ST	ute Tox. 4, H332 in Irrit. 2, H315 e Irrit. 2, H319 sp. Sens. 1, H334 in Sens. 1, H317 rc. 2, H351 OT SE 3, H335 OT RE 2, H373	C-2
2,2'-methylenediphenyl diisocyanate	REACH #: 01-2119927323-43 EC: 219-799-4 CAS: 2536-05-2 Index: 615-005-00-9	≤0.3	Ski Eye Re Ski Ca ST	ute Tox. 4, H332 in Irrit. 2, H315 e Irrit. 2, H319 sp. Sens. 1, H334 in Sens. 1, H317 rc. 2, H351 OT SE 3, H335 OT RE 2, H373	C-2
			text	Section 16 for the full of the H statements ared 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. S	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. 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. Get

medical attention if symptoms occur.

**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 inhaled.

May cause damage to organs through prolonged or repeated exposure.

Suspected of causing cancer.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

See Section 11 for more detailed information on health effects and symptoms.

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#### 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

: In a fire or when exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide, smoke, oxides of nitrogen, hydrogen cyanide and isocyanate compounds.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Use water spray to keep fire-exposed containers cool. Do not release runoff from fire to drains or watercourses.

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. 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

: 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 a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).

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

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Avoid exposure obtain special instructions before use. Avoid contact with skin and eyes. Avoid breathing vapor. Avoid inhalation of dust from sanding. Wear appropriate respirator when ventilation is inadequate. 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.

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Precautions should be taken to minimize exposure to atmospheric humidity or water.  $CO_2$  will be formed, which, in closed containers, could result in pressurization. Care should be taken when re-opening partly-used containers.

# 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

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Provide adequate ventilation. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn. (See Personal Protection.) 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, fluor rubber

> 8 hours (breakthrough time): laminated foil

Not recommended: PVC or natural rubber (latex) gloves

Skin protection

Respiratory protection

: Wear suitable protective clothing.

: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. During spray-application use air-fed respirator (EN12941:1998). By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask (EN140:1998). Under cool, dry conditions, it is possible for the isocyanate to remain unreacted in the paint film over 30 hours after application. If dry flatting is unavoidable, air-fed respiratory protective equipment (EN12941:1998) should be used during sanding. Check that mask fits tightly and change filter regularly.

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

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

**Appearance** 

Physical state : Liquid.
Color : Brown.
Odor : Strong.

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

pH : 6 to 9 [Conc. (% w/w): 100%]

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: 1.2 g/cm³Solubility(ies): Not available.Partition coefficient: n-octanol/: Not applicable.

water

Mot 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

: Reacts slowly with water, resulting in the production of carbon dioxide. In closed containers, pressure buildup could result in bursting of the container.

**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 amines alcohols

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# 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. Fire will produce dense black smoke.

Welding, grinding and other hot work on the already-coated substrate may cause free isocyanates to be formed and released.

# **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.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

#### **Acute toxicity**

Harmful if inhaled.

Irritation/Corrosion

Causes skin irritation. Causes serious eye irritation.

Sensitization

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

The product contains sensitizing substances mentioned in sections 2 and 3.

Mutagenicity

Not classified.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified.

**Teratogenicity** 

Not classified.

Specific target organ toxicity (single exposure)

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** 

Not classified.

# **SECTION 12: Ecological information**

Ecological testing has not been conducted on this product.

The product is not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

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

12.1 Toxicity : 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
₹,2'-methylenediphenyl diisocyanate	5.22	200	low
2,4'-methylenediphenyl diisocyanate	4.51	200	low
4,4'-methylenediphenyl diisocyanate	4.51	200	low

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#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

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: 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

Residues in empty containers should be neutralized with a decontaminant (see section 6). 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

: None.

# **SECTION 14: Transport information**

This product is not regulated for carriage according to ADR/RID, IMDG, IATA.

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-

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14.5 Environmental hazards	No.	No.	No.	

user

14.6 Special precautions for : 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)

**Annex XVII - Restrictions** on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles

: Ks from 24 August 2023 adequate training is required before industrial or professional use.

Other EU regulations

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

**Industrial emissions** (integrated pollution prevention and control) -

Air

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

**Persistent Organic Pollutants** 

Not listed.

# 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.

1272/20081

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** 

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Full text of abbreviated H statements	H335 May cause respira H351 Suspected of cause	ye irritation. ion. rgic skin reaction. or asthma symptoms atory irritation. sing cancer.	s or breathing difficulties if inhaled. prolonged or repeated exposure.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Carc. 2 Eye Irrit. 2 Resp. Sens. 1 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	CUTE TOXICITY - C CARCINOGENICITY - SERIOUS EYE DAMA RESPIRATORY SENS SKIN CORROSION/IR SKIN SENSITIZATION SPECIFIC TARGET O EXPOSURE) - Catego	ategory 4 Category 2 GE/ EYE IRRITATION - Category 2 GITIZATION - Category 1 RRITATION - Category 2 I - Category 1 PRGAN TOXICITY (REPEATED by 2 PRGAN TOXICITY (SINGLE
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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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