1 IDENTIFICATION OF HAZARDOUS CHEMICAL AND OF THE SUPPLIER

Product identifier
Trade name: Weberfloor PUC MF (Part A)
Substance: Polyurethane Self-Smoothing Screed
CAS No: Mixture

Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Saint-Gobain (Singapore) Pte Ltd
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Fax: +65 6330 8288

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2 HAZARDS IDENTIFICATION

Hazard Classification
No classification

Hazard Pictograms
No symbol

Signal Word
No signal word

Hazard Statements
Not applicable

Precautionary Statements
Not applicable

3 COMPOSITION AND INFORMATION OF THE INGREDIENTS

Chemical Name	CAS Number	%
H2O	7732-15-5	58
Triglyceride	8001-79-4	32
Di-isonoyl phthalate	28553-12-0	8
Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol	25265-77-4	2

4 FIRST AID MEASURES

Description of first aid measures
After inhalation:
Remove to fresh air. If breathing has stopped, institude artificial respiration. Seek medical advice if symptoms persist.
After skin contact:
Wash skin thoroughly with soap and water. Remove contaminated clothing. If symptoms persist, seek medical advice.
After eye contact:

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Rinse eyes immediately with plenty of clean water for at least 15 minutes and seek medical advice if irritation persist.
After swallowing:
Do not induce vomiting. Dilute with water. Seek medical attention immediately.

5 FIRE-FIGHTING MEASURES

Extinguishing media
In case of fire, use water spray (fog) foam, CO_2 or dry chemical.
Fire Fighting Instruction
Fire fighters should wear self-contained breathing apparatus and full protective gear.
Self Ignition
Not self igniting.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Wear personal protection equipment

Environmental precautions
Limit leakages with earth or sand. Do not discharge into the subsoil/soil.

Methods and materials for containment and cleaning up
Take up with absorbing materials (e.g sand, universal binder). Dispose as hazardous waste.

7 HANDLING AND STORAGE

Handling
Ensure adequate ventilation at the workplace. Avoid open flames and sources of ignition.
Storage
Keep away from food and drink. Store in a cool dry area and keep container tightly sealed. Incompatible materials.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls: Use with adequate local exhaust ventilation.
Hygiene Measures: Remove contaminated clothing immediately after work. Launder clothing that is soiled with this material before reuse, or else discard. Inform individuals responsible for the cleaning of potential hazards associated with the handling of these contaminated clothing. No smoking, eating, or drinking at the workplace. Wash hands thoroughly after handling this material. Keep workplace clean.
Respiratory Protection: General room ventilation is required.
Hand Protection: Chemical resistance gloves/ PVC gloves.
Eye/Face Protection: Safety goggles with side shields.
Skin Protection: Light protective clothing.

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Odour:	Typical
Colour:	White Emulsion
Chemical Type:	Liquid
Flammability:	N/A
Boiling Point:	N/A
Melting Point:	N/A
Explosion Hazard:	N/A
Vapour Pressure (25°C):	N/A

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Solubility: N/A
Relative Density: 1,047 g/cm^3 @ 20°C

10 STABILITY AND REACTIVITY

Chemical stability: Stable under normal temperature and pressure.
Polymerization: Will not polymerize.
Thermal decomposition products: Oxides of carbon.

11 TOXICOLOGICAL INFORMATION

Toxicity Data:
• LD50: >20mℓ/kg Skin – rabbit, 7499mg/kg Oral – rat.
• LC50: 4250mg/m^3 Inhalation – rat.
Effects: No data available
Acute toxicity level: No data available
Mutagenic data: No data available
Reproductive effects data: No data available

12 ECOLOGICAL INFORMATION

Ecotoxicity data:
Fish toxicity: 700 µg/l 96hours LC50 (Mortality) – Bluegill
Invertebrate toxicity: 5400 µg/l 7hours EC50 (Regeneration) – Flatworm
Algal toxicity: 3.4 µg/l /096year EC50 (Growth) – Dinoflagellate
Other toxic: 340 µg/l 2weeks (Population) – Aquatic community
Fate and transport:
Bio concentration: 3500 µg/l 24day BCF (Residue) – Midge 0.18 µg/l

13 DISPOSAL CONSIDERATIONS

Product: In accordance with local regulations, take to special waste incineration plant.
Contaminated Packaging: If empty contaiminated containers are recylced or disposed of, the receiver must inform about possible hazards.

14 TRANSPORT INFORMATION

UN NUMBER: -
(Rail/Road) ADR/RID Shipping Data
Proper Shipping Name: Not regulated for transport
Hazard Class: -
Packing Group: -
(Sea) IMO Shipping Data
Proper Shipping Name: Not regulated for transport
Hazard Class: -
Packing Group: -
(Air) ICAO/IATA Shipping Data
Proper Shipping Name: Not regulated for transport
Hazard Class: -
Packing Group: -

15 REGULATORY INFORMATION

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Inventory Information

Australia: All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on AIIC.

New Zealand: This product is approved or exempt under the Hazardous Substances and New Organisms (HSNO) Act.

European Economic Area (including EU): This product is compliant with the registration of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt and/or registered.

United States (USA): All components of this product are designated as “Active” on the TSCA Inventory or are not required to be listed.

Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS and ISHL) inventories or are not required to be listed on the Japanese inventories.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

Taiwan: All components of this product are included in the Taiwan chemical substance inventory or are not required to be listed on the Taiwan chemical substance inventory (TCSI).

Malaysia: Safety Data Sheet complies with the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 & Industry Code of Practice on Chemicals Classification and Hazard Communication 2014 by Department of Occupational Safety and Health, Malaysia.

16 OTHER INFORMATION

None

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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1 IDENTIFICATION OF HAZARDOUS CHEMICAL AND OF THE SUPPLIER

Product identifier
Trade name: Weberfloor PUC MF (Part B)
Substance: Polyurethane Heavy Duty Screed
CAS No: Mixture

Details of the supplier of the safety data sheet
Manufacturer/Supplier:
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2 HAZARDS IDENTIFICATION

Classification
Acute toxicity, Inhalative, Category 4 (H332),
Skin irritation, Category 2 (H315),
Eye irritation, Category 2 (H319),
Sensitization of the respiratory airways, Category 1 (H334),
Sensitization of the skin, Category 1 (H317),
Carcinogenicity, Category 2 (H351)
Specific target organ toxicity (single exposure), Category 3 (H335)
Specific target organ toxicity (repeated exposure), Category 2 (H373)

Hazard Pictograms

Signal Word
Danger

Hazard Statements

H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause allergic skin reaction
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
P201 Obtain special instructions before use.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

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P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Other hazards
In case of hypersensitivity of the respiratory tract (e.g. asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with the product.
Symptoms affecting the respiratory tract can also occur several hours after overexposure.
Dust, vapors and aerosols are the primary risk to the respiratory tract.
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 COMPOSITION AND INFORMATION OF THE INGREDIENTS

Chemical Name	CAS Number	%
Diphenylmethane-diisocyanate, isomers and homologues Acute Tox. 4 Inhalative 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 Inhalative H373 *Specific threshold concentration:* *Eye Irrit. 2 H319 >= 5 %* *Skin Irrit. 2 H315 >= 5 % Resp. Sens. 1 H334 >= 0,1 %* *STOT SE 3 H335 >= 5 %*	9016-87-9	100%
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate Acute Tox. 4 Inhalative H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Resp. Sens. 1 H334 Skin Sens. 1 H317 Carc. 2 H351 STOT SE 3 H335 (Respiratory system) STOT RE 2 Inhalative H373 (Respiratory tract) Resp. Sens. 1 H334 >= 0,1 % STOT SE 3 H335 >= 5 % ATE (inhalation, dust/mist): 1,5 mg/	101-68-8	25 - < 50
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate Specific threshold concentration (GHS): Eye Irrit. 2 H319 >= 5 % Skin Irrit. 2 H315 >= 5 % Resp. Sens. 1 H334 >= 0,1 % STOT SE 3 H335 >= 5 % ATE (inhalation, dust/mist): 1,5 mg/l	5873-54-1	1 - < 5
2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate Specific threshold concentration (GHS): Eye Irrit. 2 H319 >= 5 % Skin Irrit. 2 H315 >= 5 % Resp. Sens. 1 H334 >= 0,1 % STOT SE 3 H335 >= 5 % ATE (inhalation, dust/mist): 1,5 mg/l	2536-05-2	0,1 - < 1

4 FIRST AID MEASURES

Description of first aid measures
General advice:
Soiled, soaked clothing and shoes must be immediately removed, decontaminated and disposed of.
After inhalation:
Move affected person to fresh air, keep warm and let person rest. If there is difficulty breathing, seek medical advice.
After skin contact:

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Wash the contacted area thoroughly with a cleanser (polyethylene glycol based) or with plenty of warm water and soap. If symptoms persist, seek medical advice.

After eye contact:

Rinse eyes immediately with plenty of lukewarm clean water for at least 10 minutes. Contact an ophthalmologist.

After swallowing:

Do not induce vomiting. Seek medical examination immediately.

Most important symptoms and effects, both acute and delayed

Note to physician: The product irritates the respiratory tract and may trigger sensitisation of the skin and respiratory tract. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Extended medical treatment may be required depending on the degree of exposure and the severity of the symptoms.

Indication of any immediate medical attention and special treatment needed

Therapeutic measures: No information is available.

5 FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO_2), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

Unsuitable extinguishing media: High volume water jet

Special hazards arising from the substance or mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapours and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes. Fire in the vicinity poses a risk of pressure build-up and rupture. Containers at risk of fire should be cooled with water and, if possible, removed from the danger area.

Advice for fire-fighters

During firefighting, a respirator with independent air supply and an airtight garment are required. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.

Environmental precautions

Do not allow it to escape into waterways, wastewater or soil.

Methods and materials for containment and cleaning up

Remove mechanically; cover the remainder with wet, absorbent material (e.g., sawdust, chemical binder based on calcium silicate hydrate, sand). After approximately one hour, transfer to a waste container and do not seal (evolution of CO_2). Keep damp in a safe ventilated area for several days. Spill areas can be decontaminated with the following recommended decontamination solution: Decontamination solution 1: 8-10% sodium carbonate and 2% of liquid soap in water Decontamination solution 2: Liquid/yellow soap (potassium soap with ~15% anionic tenside): 20ml; Water: 700ml; Polyethylglycol (PEG 400): 350ml

Reference to other sections: For further disposal measures, see section 13.

7 HANDLING AND STORAGE

Precautions for safe handling

Provide sufficient air exchange and/or exhaust in work rooms.

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In all workplaces or parts of the plant where high concentrations of isocyanate aerosols and/or vapours may be generated (e.g., during pressure release, mould venting or when cleaning mixing heads with an air blast), appropriately located exhaust ventilation must be provided to prevent occupational exposure limits from being exceeded. Air should be drawn away from the personnel handling the product. The efficiency of exhaust equipment should be periodically checked. The threshold limit values noted in section 8 must be monitored.

The personal protective measures described in section 8 must be observed. Contact with skin and eyes and inhalation of vapours must be avoided under all circumstances. Keep away from food, drinks, and tobacco. Wash hands before breaks and at the end of work and use skin-protecting ointment. Keep working clothes separately. Take off all contaminated clothing immediately. Decontaminate, destroy, and dispose of soiled protective clothing (see Section 13).

Conditions for safe storage, including any incompatibilities
Keep container tightly closed and dry. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

Specific end use(s)
No information available. Wash off skin contamination immediately. Clear spills immediately. Provide hazard information and training to personnel.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Provide general ventilation, suitable exact ventilation.
Inspect and maintain equipment.
Hygiene measures: Avoid skin and eye contact.

Control parameters
The product may contain traces of phenylisocyanate.

Exposure controls
Respiratory protection
Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter A2-P2 (EN529) is recommended.

Hand protection
Suitable materials for safety gloves; EN 374:
Butyl rubber, nitrile rubber, chloroprene rubber (neoprene).
Notice: suitable materials that provide sufficient protection for industrial cleaning with Aprotic Polar Solvents (meeting the IUPAC definition): butyl rubber.
When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN374) is recommended.
Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as this level of protection is also highly dependent of the specific composition of the material a glove is fabricated from. The thickness of the glove must depending on model and type of material, generally be more than 0,35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0,35 mm. Other glove materials with a thickness of less than 0,35 mm may offer sufficient protection when only brief contact is expected.
Example:
Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.
Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.
Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

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Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.
Recommendation: contaminated gloves should be disposed of.

Eye protection
Use safety glasses with side shields, conforming to EN 166

Skin and body protection
Use protective clothing (chemically resistant).
In case of hypersensitivity of the skin it is inadvisable to work with the product.
Safety precautions for handling freshly molded polyurethane parts: see section 16

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
Physical state: liquid at 20 °C at 1.013 hPa
Appearance: liquid
Colour: brown
Odour: earthy, musty
Odour Threshold: not established
pH: not applicable
Pour point: < 0 °C (ISO 3016)
Boiling point/boiling range: > 300 °C at 1.013 hPa **(**DIN 53171)
Flash point: 226 °C (ISO 2719**)**
Evaporation rate: Not established

9.2 Other information
Flammability (solid, gas): Not applicable
Burning number: Not applicable
Vapour pressure: Diphenyl-methane-diisocyanate, (MDI)
< 0,00001 hPa at 20 °C
< 0,0005 hPa (50°C)
For products with a very low vapor pressure, the apparent vapor pressure may exceed the vapor pressure of the pure product due to conditions of manufacturing, storage or transportation, e.g. by solved gases like nitrogen or carbon dioxide.
1 hPa at 20 °C EG A4
12 hPa at 50 °C EG A4
17 hPa at 55 °C EG A4
Vapour density: Not established
Density: 1,238 g/cm³ at 20 °C (DIN 51757)
Miscibility with water: Immiscible at 15 °C
Surface tension: Not established
Partition coefficient not established (n−octanol/water):
Auto-ignition temperature: Not applicable
Ignition temperature: > 500 °C DIN 51794
Decomposition temperature: Not established
Viscosity, dynamic: ≥ 200 mPa.s at 20 °C (DIN 53019)
Explosive properties: Not established
Dust explosion class: Not applicable
Oxidising properties: Not established

Other information
The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

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10 STABILITY AND REACTIVITY

Reactivity: This information is not available.
Chemical Stability: Polymerises at about 200 °C with evolution of CO_2.
Possibility of Hazardous Reactions: Exothermic reaction with amines and alcohols; reacts with water forming CO_2; in closed containers, risk of bursting owing to increase of pressure.
Conditions to Avoid: This information is not available.
Incompatible Materials: This information is not available.
Hazardous Decomposition Products: No hazardous decomposition products when stored and handled correctly.

11 TOXICOLOGICAL INFORMATION

Please find below the data available to us:
Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity, oral
diphenylmethane-diisocyanate, isomers and homologues
LD50 rat, male/female: > 2.000 mg/kg
Method: OECD Test Guideline 401
Studies of a comparable product

Acute toxicity, dermal
diphenylmethane-diisocyanate, isomers and homologues
LD50 rabbit, male/female: > 9,400 mg/kg
Method: OECD Test Guideline 402

Acute toxicity, inhalation
diphenylmethane-diisocyanate, isomers and homologues
LC50 rat, male/female: 0,31 mg/l, 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
The test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of the evidence, a modified classification for acute inhalation toxicity is justified.

Assessment: Harmful by inhalation.
Converted acute toxicity point estimate 1.5 mg/l
Test atmosphere: dust/mist
Method: Expert judgement

Primary skin irritation
diphenylmethane-diisocyanate, isomers and homologues
Species: rabbit
Result: slight irritant
Method: OECD Test Guideline 404

Primary mucosae irritation
diphenylmethane-diisocyanate, isomers and homologues
Species: rabbit
Result: non-irritant
Method: OECD Test Guideline 405
Toxicological studies of a comparable product.

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Sensitisation
diphenylmethane-diisocyanate, isomers and homologues
Skin sensitisation according to Magnusson/Kligmann (maximizing test):
Species: Guinea pig
Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 406
Studies of a comparable product.

Skin sensitization (local lymph node assay (LLNA)):
Species: Mouse
Result: positive
Classification: May cause sensitization by skin contact.
Method: OECD Test Guideline 429
Toxicological studies of a comparable product.
Studies of a comparable product.

Respiratory sensitization
Species: rat
Result: positive
Classification: May cause sensitization by inhalation

Subacute, subchronic and prolonged toxicity
diphenylmethane-diisocyanate, isomers and homologues
NOAEL: 0,2 mg/m3
LOAEL (Lowest observable adverse effect level): 1 mg/m3
Application Route: Inhalative
Species: rat, male/female
Dose Levels: 0 - 0,2 - 1 - 6 mg/m3 Exposure duration: 2 a
Frequency of treatment: 6 hours a day, 5 days a week
Target Organs: Lungs, Nasal inner lining
Test substance: as aerosol Method: OECD Test Guideline 453
Findings: Irritation to nasal cavity and to lungs.
Studies of a comparable product.

Carcinogenicity
diphenylmethane-diisocyanate, isomers and homologues Species: rat, male/female
Application Route: Inhalative Dose Levels: 0 - 0,2 - 1 - 6 mg/m3 Test substance: as aerosol Exposure duration: 2 a
Frequency of treatment: 6 hours/day, 5 days/week Method: OECD Test Guideline 453
Occurrence of tumors in the highest dose group.

Reproductive toxicity/Fertility
diphenylmethane-diisocyanate, isomers and homologues No data available.

Reproductive toxicity/Teratogenicity
diphenylmethane-diisocyanate, isomers and homologues NOAEL (teratogenicity): 12 mg/m³
NOAEL (maternal): 4 mg/m³
NOAEL (developmental toxicity): 4 mg/m³ Species: rat, female
Application Route: Inhalative Dose Levels: 0 - 1 - 4 - 12 mg/m3
Frequency of treatment: 6 hours/day (Exposure duration: 10 days (day 6 - 15 p.c.))
Test period: 20 d
Test substance: as aerosol Method: OECD Test Guideline 414
NOAEL (developmental toxicity): 4 mg/m3
Did not show teratogenic effects in animal experiments.

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Genotoxicity in vitro
diphenylmethane-diisocyanate, isomers and homologues
Test type: Salmonella/microsome test (Ames test)
Test system: Salmonella typhimurium Metabolic activation: with/without Result: negative
Method: OECD Test Guideline 471

Genotoxicity in vivo
diphenylmethane-diisocyanate, isomers and homologues Test type: Micronucleus test
Species: rat, male
Application Route: Inhalative (exposure period: 3x1h/day over 3 weeks) Result: negative
Method: OECD Test Guideline 474 Studies of a comparable product.

STOT evaluation – one-time exposure
diphenylmethane-diisocyanate, isomers and homologues Route of exposure: Inhalative
Target Organs: Respiratory Tract May cause respiratory irritation.

STOT evaluation – repeated exposure
diphenylmethane-diisocyanate, isomers and homologues Route of exposure: Inhalative
Target Organs: Respiratory Tract
May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity
diphenylmethane-diisocyanate, isomers and homologues
Based on available data, the classification criteria are not met.

CMR Assessment
diphenylmethane-diisocyanate, isomers and homologues Carcinogenicity: Suspected of causing cancer by inhalation (Carc. 2).
Mutagenicity: In vitro an in vivo tests did not show mutagenic effects. Based on available data, the classification criteria are not met.
Teratogenicity: Did not show teratogenic effects in animal experiments. Based on available data, the classification criteria are not met.
Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

Toxicology Assessment
diphenylmethane-diisocyanate, isomers and homologues
Acute effects: Harmful if inhaled. The product causes irritation of eyes, skin and mucous membranes.
Sensitization: May cause sensitization by inhalation and skin contact.

Additional information
diphenylmethane-diisocyanate, isomers and homologues
Special properties/effects: Over-exposure entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the UK Workplace Exposure Limit (WEL).

Prolonged contact with the skin may cause tanning and irritant effects.

12 ECOLOGICAL INFORMATION

Do not allow it to escape into waterways, wastewater or soil.

Toxicity Acute Fish toxicity
diphenylmethane-diisocyanate, isomers and homologues
LC50 > 1,000 mg/l

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Test type: Acute Fish toxicity
Species: Danio rerio (zebra fish)
Exposure duration: 96 h
Method: OECD Test Guideline 203

Acute toxicity for daphnia
diphenylmethane-diisocyanate, isomers and homologues
EC50 > 1,000 mg/l
Test type: static test
Species: Daphnia magna (Water flea)
Exposure duration: 24 h
Method: OECD Test Guideline 202
Chronic toxicity to daphnia
diphenylmethane-diisocyanate, isomers and homologues

Acute toxicity for algae
diphenylmethane-diisocyanate, isomers and homologues
ErC50 > 1,640 mg/l
Test type: Growth inhibition
Species: scenedesmus subspicatus
Exposure duration: 72 h
Method: OECD Test Guideline 201

Acute bacterial toxicity
diphenylmethane-diisocyanate, isomers and homologues
EC50 > 100 mg/l
Test type: Respiration inhibition
Species: activated sludge
Exposure duration: 3 h
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms
diphenylmethane-diisocyanate, isomers and homologues
NOEC (mortality) > 1,000 mg/kg
Species: Eisenia fetida (earthworms)
Exposure duration: 14 d
Method: OECD Test Guideline 207

Toxicity to terrestrial plants
diphenylmethane-diisocyanate, isomers and homologues

NOEC (seedling emergence) > 1,000 mg/kg
Species: Avena sativa (oats)
Exposure duration: 14 d
Method: OECD Test Guideline 208

NOEC (Growth rate) > 1,000 mg/kg
Species: Avena sativa (oats)
Exposure duration: 14 d
Method: OECD Test Guideline 208

NOEC (seedling emergence) > 1,000 mg/kg
Species: Lactuca sativa (lettuce)
Exposure duration: 14 d
Method: OECD Test Guideline 208

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NOEC (Growth rate) > 1,000 mg/kg
Species: Lactuca sativa (lettuce)
Exposure duration: 14 d
Method: OECD Test Guideline 208

Ecotoxicology Assessment
diphenylmethane-diisocyanate, isomers and homologues
Acute aquatic toxicity: Based on available data, the classification criteria are not met.
Chronic aquatic toxicity: There is no evidence of a chronic aquatic toxicity.
Toxicity Data on Soil: Not expected to adsorb on soil. The substance is graded as non-critical to soil-dwelling organisms.
Impact on Sewage Treatment: Because of the low bacterial toxicity, there is no risk of an adverse effect on the performance of biological wastewater treatment plants.

Persistence and degradability
Biodegradability
diphenylmethane-diisocyanate, isomers and homologues
Test type: aerobic
Inoculum: activated sludge
Biodegradation: 0 %, 28 d, i.e. not inherently degradable
Method: OECD Test Guideline 302 C
According to the results of tests of biodegradability this product is not readily biodegradable.

Stability in water
diphenylmethane-diisocyanate, isomers and homologues
Test type: Hydrolysis
Half life: 20 h at 25 °C
The substance hydrolyzes rapidly in water.
Studies of a comparable product.

Photodegradation
diphenylmethane-diisocyanate, isomers and homologues
Test type: Phototransformation in air
Temperature: 25 °C
sensitizer: OH-radicals
Concentration sensibilisator: 500,000 1/cm^3
Half-life indirect photolysis: 0.92 d
Method: SRC - AOP (calculation)
After evaporation or exposure to the air, the product will be moderately degraded by photochemical processes. Studies of a comparable product.

Bioaccumulative potential
Bioaccumulation
diphenylmethane-diisocyanate, isomers and homologues
Bioconcentration factor (BCF): < 14
Species: Cyprinus carpio (Carp)
Exposure duration: 42 d
Concentration: 0.2 mg/l
Method: OECD Test Guideline 305 C
An accumulation in aquatic organisms is not to be expected. The substance hydrolyses rapidly in water.
Studies of hydrolysis products.

Mobility in soil
No data available.

Environmental distribution

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diphenylmethane-diisocyanate, isomers and homologues
no data available

Endocrine disrupting properties
No data available.

Other adverse effects
Isocyanate reacts with water at the interface forming CO_2 and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g., detergents) or by water-soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

13 DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.
For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
Waste treatment methods: After final product withdrawal, all residues must be removed from containers (drip-free, powder-free or paste- free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. These containers can be returned for recycling to the appropriate centres set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

14 TRANSPORT INFORMATION

UN NUMBER:	Not dangerous for transport
(Rail/Road)ADR/RID Shipping Data:	Not regulated (Not dangerous for transport)
(Sea)IMO Shipping Data:	Not regulated (Not dangerous for transport)
(Air)ICAO/IATA Shipping Data:	Not regulated (Not dangerous for transport)
Packing Group:	Not dangerous for transport

15 REGULATORY INFORMATION

Inventory Information
Australia: All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on AIIC.
New Zealand: This product is approved or exempt under the Hazardous Substances and New Organisms (HSNO) Act.
European Economic Area (including EU): This product is compliant with the registration of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt and/or registered.
United States (USA): All components of this product are designated as “Active” on the TSCA Inventory or are not required to be listed.
Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.
China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
Japan: All components of this product are included on the Japanese (ENCS and ISHL) inventories or are not required to be listed on the Japanese inventories.
Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.
Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.
Taiwan: All components of this product are included in the Taiwan chemical substance inventory or are not required to be listed on the Taiwan chemical substance inventory (TCSI).

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Malaysia: Safety Data Sheet complies with the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 & Industry Code of Practice on Chemicals Classification and Hazard Communication 2014 by Department of Occupational Safety and Health, Malaysia.

16 OTHER INFORMATION

Full text of hazardous (H) warnings referred to under sections 2, 3 and 10 of the CLP classification (1272/2008/CE).
H315 Causes skin irritation.
H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

For internal US delivery: Under § 172.101, Appendix A,DOT (Department of Transportation) it is requested: MDI Reportable Quantity (RQ):5000lbs (2270kg).

ISOPA Guidelines for safe loading/unloading, transport and storage of TDI and MDI. ISOPA Order No.: PSC-0005- GUIDL
Safety precautions for handling freshly molded polyurethane parts:
Depending on the production parameters, any uncovered surfaces of freshly molded polyurethane parts using this raw material may contain traces of substances (e. g. starting and reaction products, catalysts, release agents) with hazardous characteristics. Skin contact with traces of these substances must be avoided. Therefore, during demolding or other handling of fresh molded parts, protective gloves tested according to DIN-EN 374 (e.g. nitrile rubber >= 1.3 mm thick, breakthrough time >= 480 min, or according to recommendations from glove makers thinner gloves that need to be changed in compliance with breakthrough times more frequently) must be used. Depending on formulation and processing conditions, the requirements may be different from handling of the pure substances. Closed protective clothing is required for the protection of other areas of skin.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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1 IDENTIFICATION OF HAZARDOUS CHEMICAL AND OF THE SUPPLIER

Product identifier
Trade name: Weberfloor PUC MF (Part C)
Substance: Plain filler polyurethane screed
Cas No,: Mixture

Details of the supplier of the safety data sheet
Manufacturer/Supplier:
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Phone: +65 6330 8288
Fax: +65 6330 8288

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2 HAZARDS IDENTIFICATION

Classification
Skin Irrit. 2: May causes skin irritation.
Eye Dam. 1: Causes serious eye damage.
Skin Sens. 1B: May cause respiratory irritation.

Hazard Pictograms

Signal Word
Danger

Hazard Statements
H315 Causes skin irritation.
H318 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements
P260 Do not breathe dust.
P280 Wear protective gloves/protective clothing/ eye protection/ face protection
P205+351+338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/attention.
P501 Dispose of contents/container in accordance with local regulations. Contain Calcium oxide. When mixed with water it will form calcium hydroxide which has a corrosive effect on skin and eyes.

3 COMPOSITION AND INFORMATION OF THE INGREDIENTS

Chemical Name	CAS Number	%
Silicon Dioxide	601-214-2	< 10%

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White Cement Eye Dam. 1 H318 Skin Sens. 1B H317 Skin Irrit. 2 H315 Stot Se 3 H335	65997-15-1	< 80%

4 FIRST AID MEASURES

Description of first aid measures
After inhalation:
Move affected person to fresh air. If breathing has stopped, institute artificial respiration. Seek medical advice if symptoms persist.
After skin contact:
Wash the contacted area thoroughly with soap and water. Remove contaminated clothing. If symptoms persist, seek medical advice.
After eye contact:
Rinse eyes immediately with plenty of clean water for at least 15 minutes and seek medical advice.
After swallowing:
Do not induce vomiting. Dilute with water. Seek medical examination immediately.

5 FIRE-FIGHTING MEASURES

Extinguishing media
In case of fire, use water spray (fog) foam, dry chemical or CO_2.
Fire Fighting Instruction
Fire fighters should wear self-contained breathing apparatus and full protective gear.
Self Ignition
Not self igniting.
Flash Point
No data available.

6 ACCIDENTAL RELEASE MEASURES

Personal Precaution
Use personal protective equipment.
Environmental Precaution
Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.
Methods for Cleaning Up
Take up with absorbing materials (e.g. sand, universal binder). Dispose as hazardous waste.

7 HANDLING AND STORAGE

Handling
Ensure adequate ventilation at the workplace. Avoid open flames and sources of ignition.
Storage
Keep away from food and drink. Store in a cool dry area and keep container tightly sealed.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls: Use with adequate general and local exhaust ventilation.
Hygiene Measure: Do not eat, drink, smoke or take drugs in the workplace. Wash hands before break or after work.

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Respiratory Protection: General room ventilation is adequate.
Protection of hands: Chemical resistance gloves/PVC gloves.
Eye protection: Safety goggles with side shields.
Skin protection: Light protective clothing.

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Odour:	Odorless
Chemical Type:	Mixture Powder
Flammability:	Does not ignite
Boiling Point:	No data available
Melting Point:	>1000°C
Explosion Hazard:	No data available
Vapour Pressure (25˚C):	No data available
Solubility (250˚C):	Insoluble in water
Relative Density:	No data available

10 STABILITY AND REACTIVITY

Stability: No specific test data related to reactivity available for this product or its ingredients.
Hazardous Polymerization: Will not occur. Avoid strong acid, strong base and amines.
Hazardous Reactions: In fire, toxic fumes may be generated.

11 TOXICOLOGICAL INFORMATION

Proper use provided, no adverse health effects have been observed or have been come to our knowledge. Eye contact may produce an oil film over the eyeball causing a harmless reversible short lasting dimness of sight.

12 ECOLOGICAL INFORMATION

Bioaccumulation: Not available
Fish Toxicity: Not available

13 DISPOSAL CONSIDERATIONS

Product: In accordance with local authority regulations, take to special waste incineration plant.
Contaminated packaging: If empty contaminated containers are recycled or disposed of, the receiver must inform about possible hazards.

14 TRANSPORT INFORMATION

UN Number	-
(Rail/Road)ARD/RID Shipping Data:	Not regulated (Not dangerous for transport)
(Sea) IMO Shipping Data:	Keep from freezing (Not dangerous for transport)
(Air) ICAO/IATA Shipping Data:	Keep from freezing (Not dangerous for transport)
Packing Group	-

15 REGULATORY INFORMATION

Applicable regulations:

1. Permissible workplaces exposure standard labour
2. Labeling of hazardous chemicals

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3. Liberal rule, traffic regulation
4. Method and facility for industrial waste storage, clearnace and disposal

16 OTHER INFORMATION

None.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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