



# Material Safety Data Sheet

NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

**Product Name** : ARMOFLOOR PC5000 – PART A  
**HS CODE** : 32089000  
**Application** : High performance heavy duty polyurethane floor screed  
**Manufacturer** : MATEX CONSTRUCTION CHEMICALS  
MANUFACTURING CO. L.L.C.  
**Address** : P.O. Box 29585  
**Telephone** : +971 4 3334140  
**Fax** : +971 4 3334115  
**Email** : [info@matex.ae](mailto:info@matex.ae)  
**Website** : [www.matex-global.com](http://www.matex-global.com)

## 2. HAZARDS IDENTIFICATION:

No significant hazard.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

INGREDIENTS:		
Name	% Composition	CAS No.
Branched Polyol Resin	40-50	9003-13-8
Inorganic Filler	55-65	14808-60-7
Titanium Dioxide	5-7	13463-67-7

## 4. FIRST AID MEASURES:

**Skin contact** : Flush with large amounts of clean water, use soap if available.  
Remove any contaminated clothing.  
**Eye contact** : Check for and remove any contact lenses. Flush with large  
amounts of clean warm water for 15 minutes. Get prompt  
medical attention.



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<b>Inhalation</b>	:	Immediately move victim to fresh air. If breathing has stopped then administer artificial respiration. Get prompt medical attention.
<b>Ingestion</b>	:	Guard against aspiration into lungs. If victim is conscious and alert, give to glasses of water. Get prompt medical attention.

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## 5. FIRE FIGHTING MEASURES:

Suitable extinguishing media	Alcohol resistant foam, CO2, powders, water spray.
Unsuitable extinguishing media	Waterjet.
Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Special protective equipment	Appropriate-breathing apparatus may be required
Additional information	Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system

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## 6. ACCIDENTAL RELEASE MEASURES:

<b>Protective clothing to be worn</b>	:	Always wear eye protection, protect hands under rubber gloves, wear protective footwear.
<b>Respirator</b>	:	Not applicable. (If product is sprayed, use supplied air bond)
<b>Ventilation</b>	:	Adequate, local ventilation must be provided for all enclosed work spaces.
<b>Storage</b>	:	Store in a dry location. Avoid excessive heat or cold. Keep containers closed.
<b>Spill procedures</b>	:	Contain and absorb spilled materials with a non-flammable substance such as sand.
<b>Protective clothing to be worn</b>	:	Always wear eye protection, protect hands under rubber gloves, wear protective footwear.

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## 7. HANDLING AND STORAGE:

<b>Handling</b>	:	Avoid skin and eye contact.
<b>Storage</b>	:	Store in cool, dry area. Protect from frost.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

<b>Occupational Exposure Limits</b>	:	None assigned.
<b>Engineering Control Measures</b>	:	No specific ventilation requirement noted.
<b>Personal Protective Equipment</b>	:	Avoid skin and eye contact, impervious gloves (eg. nitrile or neoprene), goggles. When mist occurs during spraying operations, wear suitable respiratory protective equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Form	:	Liquid
Colour	:	Various (see the color chart)
Odour	:	Faint
Change in physical state	:	N/A
Boiling point, °C(mm Hg)	:	N/A
Melting point, °C	:	
Flash Point (°C)	:	> 100 °C
Autoignition temperature (°C)	:	N/A
Explosion limits	:	N/A
-lower	:	
-upper	:	
Thermal decomposition	:	N/A
Specific gravity (°C)	:	1.5 (25)
Viscosity (mPa.s)	:	950
Vapour pressure, mbar	:	no data available
pH value (°C)	:	N/A
Solubility in water (°C)	:	N/A

## 10. STABILITY AND REACTIVITY:

<b>Chemical stability</b>	:	Stable
<b>Incompatibility with other substances</b>	:	Avoid bases, acids, amines and oxidizers
<b>Hazardous decomposition products</b>	:	CO and phenolics produced under combustion

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## 11. TOXICOLOGICAL INFORMATION:

### Health Effects:

The following toxicological assessment is based on a knowledge of the toxicity of the product's components. Oral LD50, rat. > 5000 mg/kg. Dermal LD50, rat/rabbit > 5000 mg/kg.

### Health Effects:

On Eyes	:	May cause transient irritation.
On skin	:	Unlikely to irritate on brief or occasional exposure.
By Inhalation	:	Low volatility makes inhalation unlikely at ambient temperatures.
By Ingestion	:	May cause irritation of mouth, throat and digestive Tract.
Chronic	:	Low order of acute toxicity. May cause irritation of mouth, throat and digestive tract.

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## 12. ECOLOGICAL INFORMATION:

Environmental / Assessment	:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility	:	Mobile liquid, emulsifiable in water.
Persistence and Degradability	:	Inherently biodegradable.
Bioaccumulative Potential	:	Not expected to be bioaccumulative.
Ecotoxicity	:	Not expected to be ecotoxic to fish/daphnia/algae.

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## 13. DISPOSAL CONSIDERATIONS:

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant.

Uncleaned packaging must be disposed of in the same manner as the medium.

### Product Waste key

Disposal Code according to European Waste Catalog (EWC) please specify according to the use of product, e.g.: 080102 Waste from production, formulation, sales and application of paints and varnishes. Old paints and varnishes, not containing halogenated hydrocarbons. Switzerland: Disposal code (VVS): 1620 Waste from paints

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## 14. TRANSPORT INFORMATION:

Land transport ADR/RID and GGVS/GGVE (2001)

Classification

Class : -

Maritime transport IMDG/GGVSea

Classification

IMDG-Code : -

Air transport ICAO-TI and IATA-DGR

Classification

Class : -

## 15. REGULATORY INFORMATION:

<b>Exposure limits</b>	:	MAK (DFG, 1997)
<b>Acute exposure effects</b>	:	No known acute effects
<b>Chronic exposure effects</b>	:	Repeated or prolonged exposure to skin may cause Sensitization
<b>Mutagenicity</b>	:	No data
<b>Carcinogenicity</b>	:	No data
<b>Irritancy</b>	:	Mild skin and eye irritant
<b>Exposure limits</b>	:	None established
<b>Acute exposure effects</b>	:	No known acute effects

## 16. OTHER INFORMATION:

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other applications. Use of the product for applications other than as stated in the sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from MATEX.

If the product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from MATEX.



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## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

**Product Name** : ARMOFLOOR PC5000 PART B  
**HS CODE** : 32089000  
**Application** : High performance heavy duty polyurethane floor screed  
**Manufacturer** : MATEX CONSTRUCTION CHEMICALS MANUFACTURING CO. L.L.C.  
**Address** : P.O. Box 29585  
**Telephone** : +971 4 3334140  
**Fax** : +971 4 3334115  
**Email** : [info@matex.ae](mailto:info@matex.ae)  
**Website** : [www.matex-global.com](http://www.matex-global.com)

## 2. HAZARDS IDENTIFICATION:

No significant hazard.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	% Composition	CAS No.
diphenylmethanediisocyanate	100	9016-87-9

## 4. FIRST AID MEASURES:

Protective clothing to be worn : Always wear eye protection, protect hands under rubber gloves, wear protective footwear.  
Respirator : Not applicable. (If product is sprayed, use supplied air bond)  
Ventilation : Adequate, local ventilation must be provided for all enclosed work spaces.  
Storage : Store in a dry location. Avoid excessive heat or cold. Keep containers closed.  
Spill procedures : Contain and absorb spilled materials with a non-flammable substance such as sand.  
Protective clothing to be worn : Always wear eye protection, protect hands under rubber gloves, wear protective footwear.



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## 5. FIRE FIGHTING MEASURES:

Suitable extinguishing media  
Unsuitable extinguishing media  
Special risk posed by the substance  
or by the actual preparation, its  
combustion products or  
gases discharged  
Special protective equipment  
Additional information

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray.  
Waterjet.

Fire will produce dense black smoke.  
Exposure to decomposition products  
may cause a health hazard.  
Appropriate-breathing apparatus may be required  
Cool endangered containers with water in case of fire. Do not  
allow the quenching water into the sewage system

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## 6. ACCIDENTAL RELEASE MEASURES:

<b>Personal Precautions</b>	:	Wear suitable protective clothing, gloves and eye/face protection. Split product presents a significant slip hazard.
<b>Environmental Precautions</b>	:	Prevent entry into rains, sewers and water courses.
<b>Decontamination Procedures</b>	:	Soak up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose of as waste

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## 7. HANDLING AND STORAGE:

<b>Handling</b>	:	Avoid skin and eye contact.
<b>Storage</b>	:	Store in cool, dry area. Protect from frost.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

<b>Occupational Exposure Limits</b>	:	None assigned.
<b>Engineering Control Measures</b>	:	No specific ventilation requirement noted.
<b>Personal Protective Equipment</b>	:	Avoid skin and eye contact, impervious gloves (eg. nitrile or neoprene), goggles. When mist occurs during spraying operations, wear suitable respiratory protective equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State	:	Liquid
Colour	:	White
Odour	:	Slight / Faint
pH (working dilution)	:	8-9
Boiling Point/Range (°C)	:	100
Melting Point/Range (°C)	:	0
Flash Point (closed) (°C)	:	None
Autoflammability (°C)	:	Not applicable
Explosive Properties (%)	:	Not applicable
Oxidizing Properties	:	Not applicable
Vapour Pressure (kPa at 20°C)	:	2.3 (water)
Relative Density (at 20°C)	:	1.08
Water Solubility	:	Emulsifiable

## 10. STABILITY AND REACTIVITY:

<b>Conditions to avoid</b>	Stable under recommended storage and handling conditions(See section 7).
<b>Materials to avoid</b>	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Exothermic reaction with amines and alcohols. In contact with water (moisture) CO <sub>2</sub> is formed which leads to an excess pressure in closed containers.
<b>Hazardous decomposition products</b>	When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## 11. TOXICOLOGICAL INFORMATION:

<b>Experience on practice</b>	Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, Wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to
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## Additional toxicological information

atmospheric concentrations well below the OEL (=Occupational Exposure Limit). Repeated exposure may lead to permanent respiratory disability. Delayed reactions possible (breathing problems, coughs, asthma)

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (88/379/EEC).

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## 12. ECOLOGICAL INFORMATION:

Environmental / Assessment	:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility	:	Mobile liquid, emulsifiable in water.
Persistence and Degradability	:	Inherently biodegradable.
Bioaccumulative Potential	:	Not expected to be bioaccumulative.
Ecotoxicity	:	Not expected to be ecotoxic to fish/daphnia/algae.

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## 13. DISPOSAL CONSIDERATIONS:

Product Waste key	Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium. Disposal Code according to European Waste Catalog (EWC) please specify according to the use of product, e.g.: 080102 Waste from production, formulation, sales and application of paints and varnishes. Old paints and varnishes, not containing halogenated hydrocarbons. Switzerland: Disposal code (VVS): 1620 Waste from paints, varnishes and adhesives with organic phase or solvent
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## 14. TRANSPORT INFORMATION:

Proper shipping name:	Polyisocyanate mixture
UN Number:	Not classified as hazardous for transport
Class :	-
Subsidiary risk:	-
Packing Group:	-
Label(s):	-



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## Additional Information

ADR-HIN:	-		
IMDG-EMS:	-	Marine Pollutant:	No
IMO:	-		

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## 15. REGULATORY INFORMATION:

### Hazard Label Data:

Safety Phrases	:	Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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### EC Directives

:	Dangerous Substances Directive 67/548/EEC and adaptations. Dangerous Preparations Directive, 88/379/EEC Safety Data Sheets Directive, 91/155/EEC.
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## 16. OTHER INFORMATION:

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## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

**Product Name** : ARMOFLOOR PC5000 PART C  
**HS CODE** : 25051000  
**Application** : High performance heavy duty polyurethane floor screed  
**Manufacturer** : MATEX CONSTRUCTION CHEMICALS  
MANUFACTURING CO. L.L.C.  
**Address** : P.O. Box 29585  
**Telephone** : +971 4 3334140  
**Fax** : +971 4 3334115  
**Email** : [info@matex.ae](mailto:info@matex.ae)  
**Website** : [www.matex-global.com](http://www.matex-global.com)

## 2. HAZARDS IDENTIFICATION:

Irritating to eyes, respiratory system and skin.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	% Composition	CAS No.
Combination of Siliceous Materials	100	14808-60-7

## 4. FIRST AID MEASURES:

**Eyes** : Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently  
**Skin** : Wash immediately with copious quantities of water. Remove contaminated clothing immediately. Obtain medical advice if skin disorders develop.  
**Inhalation** : Remove from exposure, rest and keep warm and obtain medical attention urgently.



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**Ingestion** : Wash out mouth with water. DO NOT induce vomiting.  
Obtain medical attention.

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## 5. FIRE FIGHTING MEASURES:

**Suitable Extinguishing Media** : None, not flammable.  
**Special Exposure Hazards** : None

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## 6. ACCIDENTAL RELEASE MEASURES:

**Personal Precautions** : Wear rubber boots in addition to the recommended protective clothing.  
**Environmental Precautions** : Prevent entry into drains, sewers and water courses.  
**Decontamination Procedures** : Avoid the creation of dust in atmosphere. Gather into containers. Residues may be flushed to drain with large volumes of water

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## 7. HANDLING AND STORAGE:

**Handling** : Avoid skin and eye contact.  
**Storage** : Store in cool, dry area. Protect from frost.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

**Occupational Exposure Limits:**  
**MAK (DFG, 1997)**

**Engineering Control Measures** : Atmospheric levels of dust must be maintained within the occupational exposure limit. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used.

**Personal Protective Equipment** : Impervious gloves (eg. PVC), goggles / safety glasses. Approved dust mask. Change contaminated clothing immediately and clean before re-use.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State	:	Graded Powder
Colour	:	off white
Odour	:	Odorless
Boiling Point/Range (°C)	:	Not applicable
Melting Point/Range (°C)	:	Not applicable
Flash Point (closed) (°C)	:	None
Auto flammability (°C)	:	Not determined
Explosive Properties (%)	:	Not known
Relative Density (at 20°C)	:	1.85 – 1.95
Water Solubility	:	Insoluble

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## 10. STABILITY AND REACTIVITY:

Stability	:	Stable
Conditions to avoid	:	Exposure to air, contamination with water.
Hazardous Decomposition Products:		None

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## 11. TOXICOLOGICAL INFORMATION:

### Health Effects:

On Eyes	:	Irritating and may injure eye tissue if not removed promptly. Abrasive material - may cause damage to eyes.
On skin	:	Irritation. See "chronic" effects.
By Inhalation	:	Irritating to respiratory system. Inflammation of the nasal mucous membrane by exposure to cement dust.
By Ingestion	:	May cause irritation of mouth, throat and digestive tract.
Chronic	:	Cement, cementitious grouts and mortars are known to cause both irritant and allergic contact dermatitis. Prolonged skin contact can result in chemical burns.

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## 12. ECOLOGICAL INFORMATION:

Environmental / Assessment	:	Little detailed information is available on the ecological effects of this product, but its overall environmental impact is not regarded as significant.
Mobility	:	Insoluble in water.
Persistence and Degradability	:	Not readily biodegradable.
Bioaccumulative Potential	:	Not expected to be bioaccumulative.
Ecotoxicity	:	Not expected to be ecotoxic to fish/daphnia/algae.

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## 13. DISPOSAL CONSIDERATIONS:

Disposal must be in accordance with local and national legislation.

Unused Product	:	Dispose of in an approved manner.
Used / Contaminated Product	:	As for unused product.
Packaging	:	The method of disposal must be acceptable to the local authority.

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## 14. TRANSPORT INFORMATION:

This product is NOT classified as dangerous for transport.

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## 15. REGULATORY INFORMATION:

### Hazard Label Data:

Labelling	:	Labelling according to EEC directives concerning preparations.
Symbol (s)	:	Following risk and safety phrases are recommended.
Risk Phrases	:	Irritating to eyes, respiratory system and skin.



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Safety Phrases	:	Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye / face protection.
R Phrase(s)	:	R36/38 Harmful by inhalation.
S Phrase(s)	:	S36/37/39 Do not breathe dust.

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