



Prithvi PU-Cem 100 – Resin (Part A)

Category: Multi-Part Polyurethane Cementitious Coating System — Base Resin Component

SECTION 1 — IDENTIFICATION

Product Name	Prithvi PU-Cem 100 – Resin (Part A).
Recommended Use	Used as base resin in polyurethane-based surface coating application
Restrictions on Use	For industrial / professional use only

SECTION 2 — HAZARD(S) IDENTIFICATION

GHS Classification	No classification required according to GHS criteria for this product
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SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Component / Ingredient

Emulsion based on oil, in water. No particular hazards known.

No particular hazards known from the ingredients of this mixture.

SECTION 4 — FIRST-AID MEASURES

Inhalation	Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.
Skin Contact	Wash immediately with plenty of water and soap. Do not use organic solvent. Seek medical attention if irritation develops.
Eye Contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist.
Ingestion	Rinse mouth immediately, then drink plenty of water and seek medical attention. Do not induce vomiting unless directed by a poison control centre or doctor.



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SECTION 5 — FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Foam, water spray, dry powder, carbon dioxide
Unsuitable Extinguishing Media	Water jet
Specific Hazards Arising from the Product	Carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black
Special Protective Equipment for Firefighters	Wear a self-contained breathing apparatus

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid breathing dust/fume/gas/mist/vapours/spray. Wear eye/face protection and personal protective clothing.
Environmental Precautions	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
Methods for Containment & Cleanup	Pick up with a suitable appliance and dispose of absorbed material in accordance with regulations.

SECTION 7 — HANDLING AND STORAGE

Precautions for Safe Handling	Avoid inhalation of dusts/mists/vapours. Avoid skin contact. Ensure adequate ventilation.
Conditions for Safe Storage	Keep only in the original container, in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.
Incompatible Materials	Strong acids, strong bases, strong oxidizing agents, strong reducing agents

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	No occupational exposure limits known for this product
Respiratory Protection	Wear respiratory protection if ventilation is inadequate; combination filter for gases/vapours of organic, inorganic, acid and alkaline compounds (e.g. EN 14387 Type ABEK)
Hand Protection	Impermeable gloves — synthetic rubber



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Eye / Face Protection	Safety glasses with side-shields (e.g. EN 166)
Body Protection	Chosen based on level of activity and exposure

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Form	Emulsion
Colour	White
Odour	Characteristic
pH Value	Approx. 11 (20°C)
Melting / Boiling Point	Not applicable to the emulsion; water phase melts at 0°C, boils at 100°C
Flash Point	> 250°C
Density	Approx. 0.96 g/cm ³ (20°C)
Solubility in Water	Miscible (20°C)

SECTION 10 — STABILITY AND REACTIVITY

Reactivity / Chemical Stability	Stable if stored and handled as prescribed. No decomposition if stored/handled correctly.
Conditions to Avoid	See Section 7 — Handling and Storage
Incompatible Materials	Strong acids, strong bases, strong oxidizing agents, strong reducing agents
Hazardous Decomposition Products	No hazardous decomposition products if stored and handled as prescribed

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicity	Virtually nontoxic after a single ingestion, inhalation, or skin contact. Classification criteria not met.
Skin Corrosion / Irritation	No irritation expected under intended use and appropriate handling.
Serious Eye Damage / Irritation	No irritation expected under intended use and appropriate handling.
Respiratory / Skin Sensitisation	No suspicion of a skin-sensitising potential based on the ingredients.
Carcinogenicity	The chemical structure does not suggest a specific alert. Classification criteria not met.



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Repeated Dose Toxicity

No reliable data available; classification criteria not met.

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity

High probability that the product is not acutely harmful to aquatic organisms

Persistence & Degradability

Not readily biodegradable (by OECD criteria)

Bioaccumulative Potential

Discharge into the environment must be avoided

Mobility

No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Methods

Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Contaminated Packaging

Empty as far as possible; can be passed on for recycling after being thoroughly cleaned. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14 — TRANSPORT INFORMATION

Transport Classification

Not classified as a dangerous good under domestic, sea (IMDG), or air (IATA/ICAO) transport regulations

SECTION 15 — REGULATORY INFORMATION

Not scheduled under applicable poisons scheduling standards.



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**SAFETY DATA
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Prithvi PU-Cem 100 – Hardener (Part B)

Category: Multi-Part Polyurethane Cementitious Coating System — Hardener Component

SECTION 1 — IDENTIFICATION

Product Name	Prithvi PU-Cem 100 – Hardener (Part B)
Recommended Use	Used as hardener in polyurethane-based surface coating application
Restrictions on Use	For industrial / professional use only, by trained personnel

SECTION 2 — HAZARD(S) IDENTIFICATION

GHS Classification	Acute Toxicity, Category 4 (Inhalation – vapour); Skin Corrosion/Irritation, Category 2; Serious Eye Damage/Eye Irritation, Category 2A; Respiratory Sensitisation, Category 1; Skin Sensitisation, Category 1; Carcinogenicity, Category 2; STOT (Single Exposure), Category 3 (respiratory irritation); STOT (Repeated Exposure), Category 2
Signal Word	Danger

Hazard Statements

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

Precautionary Statements

- P201 – Obtain special instructions before use
- P202 – Do not handle until all safety precautions have been read and understood
- P260 – Do not breathe dust/gas/mist/vapours
- P264 – Wash with plenty of water and soap thoroughly after handling
- P271 – Use only outdoors or in a well-ventilated area
- P272 – Contaminated work clothing should not be allowed out of the workplace
- P280 – Wear protective gloves/protective clothing/eye protection/face protection
- P284 – In case of inadequate ventilation wear respiratory protection
- P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing



- P303+P352 – IF ON SKIN (or hair): Wash with plenty of soap and water
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P308+P311 – IF exposed or concerned: Call a POISON CENTER or doctor/physician
- P314 – Get medical advice/attention if you feel unwell
- P332+P313 – If skin irritation occurs: Get medical advice/attention
- P337+P311 – If eye irritation persists: Call a POISON CENTER or doctor/physician
- P362+P364 – Take off contaminated clothing and wash it before reuse
- P403+P233 – Store in a well-ventilated place. Keep container tightly closed
- P405 – Store locked up
- P501 – Dispose of contents/container to a hazardous or special waste collection point

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name / Ingredient	CAS No.	Conc. (% w/w)	GHS Classification
P-MDI (polymethylene polyphenylene isocyanate)	9016-87-9	25 – 50%	Acute Tox. 4 (inh.); Eye Dam. 2A; Skin Corr./Irrit. 2; STOT SE 3; Skin Sens. 1; Resp. Sens. 1; Carc. 2; STOT RE 2
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	25 – 50%	Acute Tox. 4 (inh.); Skin Corr./Irrit. 2; Eye Dam. 2B; Resp. Sens. 1; Skin Sens. 1B; Carc. 2; STOT SE 3; STOT RE 2
Diphenylmethane-2,4'-diisocyanate	5873-54-1	3 – 7%	Acute Tox. 4 (inh.); Skin Corr./Irrit. 2; Eye Dam. 2A; Resp. Sens. 1; Skin Sens. 1; Carc. 2; STOT SE 3; STOT RE 2
Benzene, 1,1'-methylenebis[2-isocyanato-...]	2536-05-2	0.1 – 1%	Acute Tox. 4 (inh.); Skin Corr./Irrit. 2; Eye Dam. 2A; Resp. Sens. 1; Skin Sens. 1; Carc. 2; STOT SE 3; STOT RE 2

Chemical nature: blend based on isocyanate. Exact composition is withheld as a trade secret beyond the data provided above.

SECTION 4 — FIRST-AID MEASURES

Inhalation	Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.
Skin Contact	Wash immediately with plenty of water and soap. Do not use organic solvent. Seek medical attention if irritation develops.
Eye Contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist.
Ingestion	Rinse mouth immediately, then drink plenty of water and seek medical attention. Do not induce vomiting unless directed by a poison control centre or doctor.



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Indication of Immediate Medical Attention

Respiratory sensitisation may result in allergic (asthma-like) signs in the lower respiratory tract, including wheezing, shortness of breath and difficulty breathing, which may be delayed in onset. Repeated inhalation of high concentrations may cause lung damage, including reduced lung function, which may be permanent.

SECTION 5 — FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, water spray, dry powder, carbon dioxide

Unsuitable Extinguishing Media

Water jet

Specific Hazards Arising from the Product

Carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Special Protective Equipment for Firefighters

Wear a self-contained breathing apparatus

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid breathing dust/fume/gas/mist/vapours/spray. Wear eye/face protection and personal protective clothing.

Environmental Precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for Containment & Cleanup

Pick up with a suitable appliance and dispose of absorbed material in accordance with regulations.

SECTION 7 — HANDLING AND STORAGE

Precautions for Safe Handling

Avoid inhalation of dusts/mists/vapours. Avoid skin contact. Ensure adequate ventilation. Product is not explosive.

Conditions for Safe Storage

Observe VCI storage rules. Suitable container materials: high-density polyethylene (HDPE), carbon steel (iron). Keep only in the original container, in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

Incompatible Materials

Strong acids, strong bases, strong oxidizing agents, strong reducing agents

**SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION**

Component	Occupational Exposure Limit
Diphenylmethane-4,4'-diisocyanate (MDI), 101-68-8	TWA 0.005 ppm (ACGIH TLV); TWA 0.02 mg/m ³ , STEL 0.07 mg/m ³ (AU OEL/NOEL)
Benzene, 1,1'-methylenebis[2-isocyanato-...], 2536-05-2	TWA 0.02 mg/m ³ , STEL 0.07 mg/m ³ (AU NOEL, measured as NCO)
Diphenylmethane-2,4'-diisocyanate, 5873-54-1	TWA 0.02 mg/m ³ , STEL 0.07 mg/m ³ (AU NOEL, measured as NCO)
P-MDI, 9016-87-9	TWA 0.02 mg/m ³ , STEL 0.07 mg/m ³ (AU OEL/NOEL, measured as NCO)

Engineering Controls	Provide adequate local exhaust ventilation to maintain exposures below recommended occupational limits
Respiratory Protection	Wear respiratory protection if ventilation is inadequate; combination filter for gases/vapours of organic, inorganic, acid and alkaline compounds (e.g. EN 14387 Type ABEK)
Hand Protection	Impermeable gloves — synthetic rubber
Eye / Face Protection	Safety glasses with side-shields (e.g. EN 166)
Body Protection	Chosen based on level of activity and exposure

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Colour	Dark brown
Odour	Characteristic
pH Value	Slightly alkaline
Melting / Boiling Point	Melting: not applicable; Boiling: approx. 350°C (1,013 hPa)
Flash Point	> 200°C
Density	Approx. 1.24 g/cm ³ (20°C)
Solubility in Water	Not soluble (20°C); immiscible with water
Viscosity	Approx. 90 – 300 mPa·s (23°C)



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SECTION 10 — STABILITY AND REACTIVITY

Reactivity / Chemical Stability	Stable if stored and handled as prescribed. No decomposition if stored/handled correctly.
Conditions to Avoid	See Section 7 — Handling and Storage
Incompatible Materials	Strong acids, strong bases, strong oxidizing agents, strong reducing agents
Hazardous Decomposition Products	No hazardous decomposition products if stored and handled as prescribed

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicity	Of moderate toxicity after short-term inhalation
Skin Corrosion / Irritation	Skin contact causes irritation
Serious Eye Damage / Irritation	Eye contact causes irritation
Respiratory / Skin Sensitisation	May cause sensitisation of the respiratory tract; sensitisation after skin contact is possible
Carcinogenicity	Indication of possible carcinogenic effect in animal tests
Repeated Dose Toxicity	Repeated exposure may affect certain organs; causes temporary irritation of the respiratory tract on single exposure

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity	High probability that the product is not acutely harmful to aquatic organisms; inhibition of activated sludge degradation not anticipated at appropriate low concentrations
Persistence & Degradability	Not readily biodegradable (by OECD criteria)
Bioaccumulative Potential	Discharge into the environment must be avoided
Mobility	Will not evaporate into the atmosphere from the water surface; adsorption to solid soil phase is not expected



SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Methods

Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Contaminated Packaging

Empty as far as possible; can be passed on for recycling after being thoroughly cleaned. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14 — TRANSPORT INFORMATION

Transport Classification

Not classified as a dangerous good under domestic, sea (IMDG), or air (IATA/ICAO) transport regulations

SECTION 15 — REGULATORY INFORMATION

Not scheduled under applicable poisons scheduling standards.



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Prithvi PU-Cem 100 – Filler (Part C)

Category: Multi-Part Polyurethane Cementitious Coating System — Filler Component

SECTION 1 — IDENTIFICATION

Product Name	Prithvi PU-Cem 100 – Filler (Part C)
Recommended Use	Used as filler in polyurethane-based surface coating application
Restrictions on Use	For industrial / professional use only

SECTION 2 — HAZARD(S) IDENTIFICATION

GHS Classification	Skin Corrosion/Irritation, Category 2; Serious Eye Damage/Eye Irritation, Category 1; STOT (Single Exposure), Category 3 (respiratory irritation); STOT (Repeated Exposure), Category 1 (inhalation)
Signal Word	Warning

Hazard Statements

- H318 – Causes serious eye damage
- H315 – Causes skin irritation
- H335 – May cause respiratory irritation
- H372 – Causes damage to organs (lung) through prolonged or repeated exposure (inhalation)

Precautionary Statements

- P260 – Do not breathe dust/gas/mist/vapours
- P264 – Wash with plenty of water and soap thoroughly after handling
- P270 – Do not eat, drink or smoke when using this product
- P271 – Use only outdoors or in a well-ventilated area
- P280 – Wear protective gloves and eye/face protection
- P303+P352 – IF ON SKIN (or hair): Wash with plenty of soap and water
- P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P310 – Immediately call a POISON CENTER or doctor/physician
- P332+P313 – If skin irritation occurs: Get medical advice/attention
- P362+P364 – Take off contaminated clothing and wash before reuse
- P403+P233 – Store in a well-ventilated place. Keep container tightly closed
- P405 – Store locked up



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- P501 – Dispose of contents/container to a hazardous or special waste collection point

Other Hazard Information

May be harmful if inhaled; risk of serious damage to eyes. Can cause moderate irritation due to abrasive action. In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns. Contains material which can cause cancer. Keep container tightly closed; avoid inhalation of dust, ingestion, and contact with skin, eyes and clothing; wash thoroughly after handling.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name / Ingredient	CAS No.	Conc. (% w/w)	GHS Classification
Crystalline silica	14808-60-7	50 – 75%	Known human carcinogen (IARC Group 1); silicosis risk on prolonged/repeated inhalation
Cement, portland, chemicals	65997-15-1	20 – 25%	Skin/eye irritant; alkaline reaction with moisture
Calcium dihydroxide	1305-62-0	0.3 – 3%	Irritant
Magnesium oxide	1309-48-4	0 – 3%	Not classified
Limestone	1317-65-3	0 – 3%	Not classified
Gypsum (Ca(SO ₄)·2H ₂ O)	13397-24-5	0.3 – 3%	Not classified

This product contains crystalline silica (quartz), a known carcinogen - see Sections 2 and 11.

SECTION 4 - FIRST-AID MEASURES

Inhalation	Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.
Skin Contact	Wash immediately with plenty of water and soap. Do not use organic solvent. Seek medical attention if irritation develops.
Eye Contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist.
Ingestion	Rinse mouth immediately, then drink plenty of water and seek medical attention. Do not induce vomiting unless directed by a poison control centre or doctor.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Foam, water spray, dry powder, carbon dioxide
Unsuitable Extinguishing Media	Water jet



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Specific Hazards Arising from the Product	Carbon monoxide, carbon dioxide, harmful vapours; product itself is non-combustible or explosive
Special Protective Equipment for Firefighters	Wear self-contained breathing apparatus and chemical-protective clothing

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid breathing dust/fume/gas/mist/vapours/spray. Wear eye/face protection and personal protective clothing. Avoid raising dust.
Environmental Precautions	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
Methods for Containment & Cleanup	Pick up with a suitable appliance; pack large amounts in tightly closed containers for disposal. Rinse residues with plenty of water.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling	Avoid dust formation. The cement in this product reacts alkaline in contact with water or humidity, which may cause severe irritation of skin or mucous membranes. Avoid inhalation of dust and skin contact. Pour downwind and allow as little free fall as possible; protect breathing when decanting large quantities without local exhaust ventilation.
Conditions for Safe Storage	Containers should be stored tightly sealed in a dry place. Segregate from metals, acids, alkalis (lyes), oxidants, and foods/animal feeds.
Incompatible Materials	Strong bases, strong acids

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Occupational Exposure Limit
Crystalline silica, 14808-60-7	OSHA PEL: TWA 0.1 mg/m ³ (respirable); TWA 0.3 mg/m ³ (total dust)
Cement, portland, chemicals, 65997-15-1	OSHA PEL: 15 mg/m ³ (total dust), 5 mg/m ³ (respirable fraction); ACGIH TLV: TWA 1 mg/m ³ (respirable, <1% crystalline silica, no asbestos)
Calcium dihydroxide, 1305-62-0	OSHA PEL: 5 mg/m ³ (respirable), 15 mg/m ³ (total dust); ACGIH TLV: TWA 5 mg/m ³
Magnesium oxide, 1309-48-4	OSHA PEL: 15 mg/m ³ (total particulate); ACGIH TLV: TWA 10 mg/m ³ (inhalable)
Limestone, 1317-65-3	OSHA PEL: 5 mg/m ³ (respirable), 15 mg/m ³ (total dust)
Gypsum (Ca(SO ₄)·2H ₂ O), 13397-24-5	OSHA PEL: 5 mg/m ³ (respirable), 15 mg/m ³ (total dust); ACGIH TLV: TWA 10 mg/m ³ (inhalable)



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Engineering Controls	Provide local exhaust ventilation to maintain recommended exposure limits
Respiratory Protection	Wear breathing protection if dust is formed
Hand Protection	Chemical-resistant protective gloves
Eye / Face Protection	Tightly fitting safety goggles (chemical goggles)
Body Protection	Chosen based on level of activity and exposure

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	Powder
Colour	Various
Odour	Odourless
pH Value	Approx. 13 (as suspension, 20°C)
Melting / Boiling Point	Not applicable
Flash Point	Not applicable - the product is a solid
Density	2.6 g/cm ³ ; bulk density approx. 1.18 g/cm ³
Solubility in Water	Dispersible (15°C)

SECTION 10 - STABILITY AND REACTIVITY

Reactivity / Chemical Stability	Stable if stored and handled as prescribed. Strong bases are formed on the addition of water.
Conditions to Avoid	Avoid dust formation. Avoid humidity.
Incompatible Materials	Strong bases, strong acids
Hazardous Decomposition Products	No hazardous decomposition products if stored and handled as prescribed

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Acute Toxicity	May present a nuisance dust hazard. Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties.
Skin Corrosion / Irritation	Irritant (rabbit study on portland cement)
Serious Eye Damage / Irritation	Risk of serious damage to eyes; severely irritating (rabbit study on portland cement)
Respiratory / Skin Sensitisation	No evidence of a skin-sensitising potential; sensitisation due to chromate is unlikely within the stated shelf-life
Carcinogenicity	Contains a known carcinogen - crystalline silica (quartz), classified by IARC as Group 1 (known human carcinogen) and by the German MAK Commission as a Category 1 carcinogen via inhalation
Repeated Dose Toxicity	Contains crystalline silica (quartz); prolonged or repeated inhalation of respirable crystalline silica may result in silicosis

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	High probability that the product is not acutely harmful to aquatic organisms; the product gives rise to pH shifts
Persistence & Degradability	Inorganic product; not eliminated from water by biological purification, but can be largely eliminated by abiotic processes (e.g. mechanical separation); inert and non-degradable
Bioaccumulative Potential	Not expected to be readily bioavailable due to its consistency and insolubility in water
Mobility	Will not evaporate into the atmosphere from the water surface; adsorption to solid soil phase is probable - groundwater contamination is not expected

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods	Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.
Contaminated Packaging	Completely emptied packaging can be given for recycling.



SECTION 14 - TRANSPORT INFORMATION

Transport Classification

Not classified as a dangerous good under domestic, sea (IMDG), or air (IATA/ICAO) transport regulations

SECTION 15 - REGULATORY INFORMATION

Contains crystalline silica and portland cement, which are subject to state/regional Right-to-Know listing in some jurisdictions. This product contains a chemical known in some jurisdictions to cause cancer - handle with appropriate precautions and consult local hazard communication requirements.



Prithvi PU-Cem 100 – Pigment (Part D)

Category: Multi-Part Polyurethane Cementitious Coating System - Pigment Component

SECTION 1 - IDENTIFICATION

Product Name	Prithvi PU-Cem 100 – Pigment (Part D)
Recommended Use	Used as pigment in polyurethane-based surface coating application
Restrictions on Use	For industrial / professional use only

SECTION 2 - HAZARD(S) IDENTIFICATION

GHS Classification	No classification required according to GHS criteria for this product (non-hazardous chemical)
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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Component / Ingredient

Preparation based on castor oil and pigments. Does not contain any hazardous ingredients.

Does not contain any hazardous ingredients. Note: an occupational exposure limit is listed in Section 8 for a trace pigment constituent (dichromium trioxide).

SECTION 4 - FIRST-AID MEASURES

Inhalation	Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.
Skin Contact	Wash immediately with plenty of water and soap. Do not use organic solvent. Seek medical attention if irritation develops.
Eye Contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist.
Ingestion	Rinse mouth immediately, then drink plenty of water and seek medical attention. Do not induce vomiting unless directed by a poison control centre or doctor.

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SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Foam, water spray, dry powder, carbon dioxide
Unsuitable Extinguishing Media	Water jet
Specific Hazards Arising from the Product	Carbon monoxide, carbon dioxide, harmful vapours; product itself is non-combustible or explosive
Special Protective Equipment for Firefighters	Wear self-contained breathing apparatus and chemical-protective clothing

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid breathing dust/fume/gas/mist/vapours/spray. Wear eye/face protection and personal protective clothing. Avoid raising dust.
Environmental Precautions	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
Methods for Containment & Cleanup	Pick up with a suitable appliance; pack large amounts in tightly closed containers for disposal. Rinse residues with plenty of water.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling	Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact.
Conditions for Safe Storage	Keep only in the original container, in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Protect from temperatures below 5°C and above 30°C.
Incompatible Materials	Strong acids, strong bases, strong oxidizing agents, strong reducing agents

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Occupational Exposure Limit
Dichromium trioxide, 1308-38-9	TWA 0.5 mg/m ³ (measured as chromium), per OEL (AU), ACGIH TLV, and AU NOEL



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Engineering Controls	Provide adequate local exhaust ventilation
Respiratory Protection	Wear respiratory protection if ventilation is inadequate; combination filter for gases/vapours of organic, inorganic, acid and alkaline compounds (e.g. EN 14387 Type ABEK)
Hand Protection	Impermeable gloves - synthetic rubber
Eye / Face Protection	Safety glasses with side-shields (e.g. EN 166)
Body Protection	Light protective clothing

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Colour	As required
Odour	Characteristic
pH Value	Not applicable
Melting / Boiling Point	Not applicable
Flash Point	> 250°C
Density	Approx. 1.4 g/cm ³ (20°C)
Solubility in Water	Practically insoluble (20°C); miscibility with water < 10%
Viscosity	Not applicable (23°C)
Solids Content	Approx. 39.5%

SECTION 10 - STABILITY AND REACTIVITY

Reactivity / Chemical Stability	Stable if stored and handled as prescribed. No decomposition if stored/handled correctly.
Conditions to Avoid	See Section 7 - Handling and Storage
Incompatible Materials	Strong acids, strong bases, strong oxidizing agents, strong reducing agents
Hazardous Decomposition Products	No hazardous decomposition products if stored and handled as prescribed



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SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity	Virtually nontoxic after a single ingestion, inhalation, or skin contact. Classification criteria not met.
Skin Corrosion / Irritation	No irritation expected under intended use and appropriate handling.
Serious Eye Damage / Irritation	No irritation expected under intended use and appropriate handling.
Respiratory / Skin Sensitisation	Classification criteria not met
Carcinogenicity	The chemical structure does not suggest a specific alert. Classification criteria not met.
Repeated Dose Toxicity	No reliable data available; classification criteria not met.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	High probability that the product is not acutely harmful to aquatic organisms
Bioaccumulative Potential	Discharge into the environment must be avoided
Mobility	No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods	Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.
Contaminated Packaging	Empty as far as possible; can be passed on for recycling after being thoroughly cleaned.

SECTION 14 - TRANSPORT INFORMATION

Transport Classification	Not classified as a dangerous good under domestic, sea (IMDG), or air (IATA/ICAO) transport regulations
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SECTION 15 - REGULATORY INFORMATION

Not scheduled under applicable poisons scheduling standards.