

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **UCRETE FLOORING, PART 3 All Grades**
DP Basecoat B4; DP Basecoat B6; DP Basecoat B9; DP Topcoat; MF; MF AS; UD200; UD200SR;
WR; Primer LC; Primer LC AS.

Product code: Various.

Recommended use: Part 3 of a three component, water-based polyurethane flooring system.

Company: BASF Construction Chemicals Australia Pty Ltd. ABN 46 000 450 288
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2. HAZARDS IDENTIFICATION

Hazard classification: Hazardous according to criteria of NOHSC

Hazard Designation: Xi Irritant

Risk phrase(s): R38 Irritating to eyes, respiratory system and skin.
R41 May cause sensitization by inhalation and skin contact.

Safety phrase(s): S2 Keep out of the reach of children.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 This material and its container must be disposed of in a safe way.
S39 Wear eye face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.
S64 If swallowed, rinse mouth with water (only if the person is conscious).
U-4 Contact between cement powder and body fluids (e.g. sweat and eye fluid) may also cause irritation, dermatitis or burns.
U-6 Contains chromium (VI). May produce an allergic reaction.
U-9 Wear suitable gloves and eye protection.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mineral fillers.

Chemical Name	CAS Number	Proportion
Portland cement.	9016-87-9	25 - 50 %
Calcium Hydroxide	1305-62-0	10 - 25 %
Silica, crystalline quartz (contamination from cement)	14808-60-7	< 1 %
Hexavalent Chromium (contamination from cement)	Not known	< 2 ppm
Non hazardous ingredients		To 100%

All ingredients listed on AICS.

4. FIRST AID MEASURES

Inhalation: Use in well ventilated areas. If inhalation occurs, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention.

- Eyes:** While holding eyes open, gently flood with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.
- Skin:** Remove contaminated clothing. Remove excess from skin mechanically. Wash contacted areas thoroughly with plenty of soap and water. Do NOT use solvents or thinners. If irritation persists seek medical attention. Wash contaminated clothing thoroughly before re-use.
- Ingestion:** Not a normal route of injury. Do not induce vomiting; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media:** Not combustible under normal conditions. Treat as per surrounding fire.
- Hazards from combustion products:** None known...
- Precautions and equipment for fire fighters:** Do not allow quenching water into sewers or waterways.
- Hazchem code:** Not applicable.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Provide for sufficient ventilation. Refer to protective measures listed in sections 7 and 8.
- Methods and materials for containment and clean up:** Spills should be collected/removed mechanically. Bulk can be shovelled into appropriately labelled drums. Residue can be vacuumed up or swept and collected. Do not use water. Disposal should be effected by an approved waste disposal organisation according to local regulations.
- Environmental precautions:** Do not empty into drains. If the product contaminates sewers, drains or waterways, inform appropriate authorities in accordance with local regulations.

7. HANDLING AND STORAGE

- Information for safe handling**
Provide for fresh air ventilation. Do not inhale dust. Avoid contact with skin and eyes. Do not eat or drink during work – no smoking. Comply with all health and safety at work laws.
- Information about protection against explosions and fires**
No particular measures required.
- Requirements to be met by storerooms and containers**
Containers should be kept dry and sealed. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage. Reaction with water (moisture) produces CO₂ gas. Exothermic reaction with materials containing active hydrogen groups. A hazardous build up of pressure can result if contaminated containers are resealed.
- Information about separation of incompatible products**
Keep away from oxidising agents, from strongly alkaline and strongly acid materials. Reaction with water (moisture) produces setting with very mild exothermic reaction.
- Further information about storage conditions**
Always keep in containers of same material as the original one. Avoid direct sunlight. Containers should be kept dry and sealed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of vapours or particles below the OEL (Occupational Exposure Limit), suitable respiratory protection must be worn. Allergics and persons who have problems with the respiration tract are not recommended to work with this product.

Components with critical values that require monitoring at the workplace (exposure limits).

Silica, Crystalline - Quartz (CAS No.: 14808-60-7) (contaminant from cement).

ES-TWA: 0.1 mg/m³ (Silica Quartz, respirable, NOHSC) (AU)

ES-TWA#: 0.1 mg/m³ (QLD); 0.15 mg/m³ (NSW) (AU)

WES-TWA: 0.2 mg/m³ (AU)

Portland Cement (CAS No: 65997-15-1)

ES-TWA: 10 mg/m³ Portland Cement (AU)

ES-TWA#: 0.05 mg/m³ Chromium (VI) Compounds (contaminant) (AU)

WES-TWA: 10 mg/m³ (AU)

TRGS 900 – maximum limit in the atmosphere at the workplace (D)

5 mg/m³ - measured as the inhaleable fraction.

TLV/TWA (GB)

10 mg/m³ / 8 hr

INH

TLV/TWA (GB)

4 ml/m³ / 8 hr

RESP

Hexavalent Chromium (Contaminant) (CAS No.: Not Available) (AU)

ES-TWA: 0.05 mg/m³

Calcium Hydroxide (CAS No.: 1305-62-0)

TLV/TWA (GB)

5 mg/m³ / 8 hr

Personal protective equipment

Respiratory protection: At high dust levels, wear a Class P3 (Particulate) respirator or a Powered Air Purifying Respirator (PAPR) with Class P3 (Particulate) filter. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator.

Hand protection: Nitrile rubber gloves $\geq 0.35\text{mm}$ ≥ 480 min. By using other gloves with a lower endurance, change them more often. After washing hands replace lost skin fat by fat containing skin creams.

Eye protection: Use safety glasses.

Clothing: Light protective clothing.

Other: Use barrier creams to protect skin from contact with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Coloured powder.	<u>Solubility in water:</u>	Insoluble.
<u>Odour:</u>	Cement.	<u>Specific gravity:</u>	ca 2.8
<u>pH:</u>	11 - 13	<u>Flash point:</u>	Not applicable.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal storage and handling conditions. Not sensitive to mechanical impact.

Incompatible materials: Keep away from strongly acid materials in order to avoid exothermic reactions. Reacts with water to set hard with mild exothermic reaction.

Hazardous decomposition products: None known.

Hazardous reactions: Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

<u>Health Hazard Summary:</u>	Slightly corrosive. Avoid eye or skin contact or dust inhalation. This product has the potential to cause acute and chronic health effects with over exposure. Crystalline silica can cause silicosis (lung disease) with chronic over exposure. Crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).
<u>Inhalation:</u>	Slightly corrosive. Over exposure may result in severe mucous membrane irritation & bronchitis. Hexavalent chromium is reported to cause respiratory sensitisation, however due to the trace amount present; a hazard is not anticipated under normal conditions of use.
<u>Eyes:</u>	Corrosive. Severe irritant upon contact with powder/ dust. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage.
<u>Skin contact:</u>	Slightly corrosive. Prolonged and repeated contact with powder or wetted form may result in skin rash, dermatitis and sensitisation.
<u>Ingestion:</u>	Slightly corrosive. Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route.
<u>Toxicity Data:</u>	Silica, Crystalline - Quartz (14808-60-7) Carcinogenicity: Classified as a human carcinogen (IARC Group 1) Hexavalent Chromium (Contaminant) (Not Available) Carcinogenicity: Confirmed human carcinogen (IARC Group 1) Health Surveillance: Required [NOHSC:1005(1994)]

12. ECOLOGICAL INFORMATION

<u>Ecotoxic effects:</u>	Do not discharge into drains, sewers or waterways. Degradability not determined.
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13. DISPOSAL CONSIDERATIONS

<u>Disposal method and containers:</u>	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.
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14. TRANSPORT INFORMATION

<u>UN number:</u>	None allocated.	<u>EPG card:</u>	None allocated.
<u>UN proper shipping name:</u>	None allocated	<u>Packing group:</u>	None allocated.
<u>Dangerous goods class:</u>	None allocated.	<u>Hazchem code:</u>	None allocated
<u>Subsidiary risk:</u>	None allocated.	<u>Poisons schedule:</u>	None allocated.

15. REGULATORY INFORMATION

<u>Hazard Designation:</u>	Xi	Irritant
<u>Risk phrase(s):</u>	R38 R41	Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.
<u>Safety phrase(s):</u>	S2 S24/25 S26 S35 S39 S46	Keep out of the reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. This material and its container must be disposed of in a safe way. Wear eye face protection. If swallowed, seek medical advice immediately and show this container or label.

S64	If swallowed, rinse mouth with water (only if the person is conscious).
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16. OTHER INFORMATION

Reason for issue: Section 01: Addition of new products in range. Section 07: Components with critical values that require monitoring in the workplace. Section 15: R and S phrases.

The data herein is based on the BASF Construction Chemicals (UK) Ltd MSDS Revision: 27.09.2006, Version: 4.0.0

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.