

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **UCRETE Part 2**
(For UCRETE FL, HF100, HF 100RT, MF, MF AS, TZ, TZ AS, TZ Coving, TZ Grout, UD200, UD 200 N, UD200 SR, WR, DP Basecoat, DP Basecoat AS, DP Topcoat, DP Topcoat AS, CP Basecoat B6 AS, Primer LC, Primer LC AS, Primer SC, Primer SCF)

Company: BASF Construction Chemicals Malaysia Sdn Bhd
Address: No. 8, Jalan Keluli 2
Kawasan Perindustrian Bukit Raja
41050 Klang
Selangor Darul Ehsan
Malaysia

Telephone number: +603 3344 3388
Facsimile: +603 3344 2288

Emergency telephone numbers: +603 3344 3388

2. HAZARDS IDENTIFICATION

Safety hazards: May cause sensitization by inhalation and skin contact.
Health hazards: Harmful by inhalation. Irritating to eyes, respiratory system and skin.
Environmental hazards: n.d.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixture of diphenylmethane diisocyanates and polymer constituents
Hazardous Ingredients: Diphenylmethane diisocyanate : isomers and homologes
CAS No: 9016-87-9
EC No: n.d.
Hazard symbols: Xn Xi Xi
R-phrases: R42/43 R20 R36/37/38
% Concentration: 50 – 100%

4. FIRST AID MEASURES

Immediate treatment

Eye contact: Remove contact lenses, keep eyelids open. Flush with plenty of water (10 to 15 mins). Call a physician.

Skin contact: Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do not use solvents or thinners.

Inhalation: Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing / no breathing: artificial respiration. Unconsciousness: lateral position – call a doctor.

Ingestion: Do not induce vomiting! Never make an unconscious person vomit or drink fluid. Rinse mouth thoroughly. Contact a doctor immediately.

MATERIAL SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Alcohol resistant foam, CO ₂ , powders and water spray
Unsuitable extinguishing media:	Waterjet
Special risk:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. During fire, carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide may be given off.
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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.
Environmental precautions:	Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.
Method for cleaning up:	Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to regulations (see section 13). Subsequently put in the waste container. Do not seal (CO ₂ may be given off).

7. HANDLING AND STORAGE

Handling:	Provide for fresh air ventilation. Do not inhale the vapour. Avoid contact with skin and eyes. Do not eat or drink during work – no smoking. Comply with the health and safety at work laws.
Requirements for storage rooms:	Containers should be kept dry and sealed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Additional information:	Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating over 50°C. Avoid cooling to under 0°C
Materials not to be stored together:	Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Storage class (VCI) : 10

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical 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 particulates and solvent vapour below the OEL (= Occupational Exposure Limit), suitable respiratory protection must be worn. Allergies and persons who have problems with the respiration tract are not recommended to work with this product.
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MATERIAL SAFETY DATA SHEET

Exposure limits: Diphenylmethane Diisocyanate : Isomers and homologes (CAS No. 9016-87-9)

Specification : Threshold limit value (GB)

Value : 0.02 mg/m³ / 8 hr

Remarks : MEL / TWA

Specification : Threshold limit value (GB)

Value : 0.07 mg/m³ / 15 min

Remarks : MEL / STEL

Personal protection

Respiratory protection: By spraying: air fed respirator. By other operations than spraying: in well ventilated areas, air fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

Eye protection: Use safety glasses.

Hand protection: Butylrubber ≥ 0.5 mm ≥ 480 min. After washing hands replace lost skin fat by fat containing skin creams. By using other gloves with a lower endurance, change them more often.

Body protection: Light protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Dark brown
Odour:	Earthy, musty
Boiling point (1013 hPa):	350 °C
Flash point (DIN 53213):	> 200 °C
Ignition temperature:	> 400 °C
Vapour pressure:	< 0.0001 hPa (50 °C)
Vapour density (20 °C):	1.24 g/cm ³
Relative density:	n.d.
Solvent separation test(20 °C):	n.a. (20 °C)
pH value:	n.a.
Viscosity:	90 – 300 mPa (23 °C)

10. STABILITY AND REACTIVITY

Hazardous reactions (conditions to avoid): Stable under recommended storage and handling conditions (See section 7).

Materials to avoid: 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) CO₂ is formed which leads to an excess pressure in closed containers.

Hazardous decomposition products: When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

MATERIAL SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

Toxicological tests

LD50/LC50 values that are relevant for classification

Specification:	LC-50
Routes of entry:	inh
Test species:	Rat
Value / dosage:	Approximately 490 mg/m ³
Test period:	41 hr

Specification:	LD-50
Routes of entry:	oral
Test species:	Rat
Value / dosage:	> 15 g/kg

Experience on practice

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

Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Is converted in connection with water in a solid, insoluble and inert polyurea, liberating CO₂

Aquatic toxicity

Specification:	Toxicity to fish (Pine Oil : CAS No: 8006-64-2)
Parameters:	LC0 Danio Rerio
Value /dosage:	>= 1,000 mg/l
Test period:	961 hr

Specification:	Toxicity to daphnia
Parameters:	EC50
	Species: Daphnia magna Straus 1820
Value / dosage:	>= 1,000 mg/l
Test period:	241 hr

MATERIAL SAFETY DATA SHEET

Specification:	Toxicity to bacteria
Parameters:	EC50
	Species : Bacteria
Value / dosage:	>= 100 mg/l
Test period :	31 hr

Additional information

General ecological information: Do not empty into waters or drains

13. DISPOSAL CONSIDERATIONS

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Unclean packaging must be disposed of in the same manner as the medium.

Recommendation

In accordance with local official regulations. Pass on to an appropriate incinerating plant or depository or recycling.

14. TRANSPORT INFORMATION

Road transport ADR / RID

Class:	n.a.
Number/letter:	n.a.
Warning sign:	n.a.
Hazard No:	n.a.
UN No:	n.a.

Maritime / Air transport IMDG

UN No:	n.a.
PG:	n.a.
Class:	n.a.
IMDG code page:	n.a.

MATERIAL SAFETY DATA SHEET

15. REGULATORY INFORMATION

Classification: Xn - Harmful
Hazard labels: Diphenylmethane Diisocyanate: Isomeres and Homologes (CAS No.:9016-87-9)
R-phrases:

R42 / 43 : May cause sensitisation by inhalation and skin contact.

R20 : Harmful by inhalation

R36/37/38 : Irritating to eyes, respiratory system and skin.

S-phrases:

S2 : Keep out of the reach of children.

S35 : This material and its container must be disposed of in a safe way.

S36/37 : Wear suitable protective clothing and gloves.

S 51 : Use only in well-ventilated areas

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)

S63 : In case of accident by inhalation, remove casualty to fresh air and keep at rest.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Special designation for certain preparations

91 : Contains isocyanates.

National regulatory information:

Regulation on inflammable liquids (VbF):

VbF-Class: Not dangerous according to VbF

Water pollution classification:

Class: 1 according KBwS

MATERIAL SAFETY DATA SHEET

16. OTHER INFORMATION

Restrictions on use recommended by the manufacturer

Coating material – use only according to the Technical Information of the product.

Further information

We have no knowledge or control over the user's working conditions. However, the product may not be used for any purpose other than that specified in chapter 16 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

Relevant changes

15 S- phrases

R-Phrases of components

20	Harmful by inhalation
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitisation by inhalation and skin contact.

Key:

n.a. = not applicable
n.as. = not assigned
n.d. = no data

Reason for Issue: New format based on National Code of Practice for the preparation of MSDS – 2nd edition [NOHSC:2011(2003)]. Change of company name.

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.