

Material Safety Data Sheet

according to 91/155/EEC

Product name : UCRETE LOCKCOAT PU
Revision : 11.07.2006 **Version :** 2.0.0
Print date : 07.08.2006

01. Identification of substance, preparation and company

Product name

UCRETE LOCKCOAT PU (F122876)

Manufacturer/Supplier

BASF Construction Chemicals (UK) Ltd.

Street/P.O.Box

19 Broad Ground Road Lakeside Industrial Estate /

Country code/Postal code/Town/City

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Telephone / Telefax

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Emergency information

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02. Composition/information on ingredients

Chemical characterization

Aliphatic polyisocyanate with low monomeric contents.

Hazardous components

ALIPHATIC POLYISOCYANATE ; CAS-No. : 28182-81-2

Percentage : 50 - 100 %

Classification : R 43 R 52/53

DIBUTYLSTANNANE DILAURATE ; EC-No. : 201-039-8 ; CAS-No. : 77-58-7

Percentage : 0.1 - 0.5 %

Classification : N ; R 50/53 Xn ; R 48/22 Xn ; R 22 Xi ; R 36/38

HEXAMETHYLENE-DI-ISOCYANATE ; EC-No. : 212-485-8 ; CAS-No. : 822-06-0

Percentage : 0.1 - 0.5 %

Classification : T ; R 23 R 42/43 Xi ; R 36/37/38

AROMATIC HYDROCARBON ; EC-No. : 265-199-0 ; CAS-No. : 64742-95-6

Percentage : 0.1 - 0.5 %

Classification : R 10 N ; R 51/53 Xn ; R 20 Xn ; R 65

For the wording of the listed risk phrases refer to section 16.

03. Hazards identification

Hazard designation

May cause sensitisation by skin contact. · Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification : R 43 · R 52/53

04. First-aid measures

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After 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 physician.

After skin contact

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

Contact a doctor immediately. Keep at rest. Do not induce vomiting.

05. 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. During fires carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide may be given off.

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.

06. 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.

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Subsequently put in the waste container. Do not seal (CO₂ may be given off).

07. Handling and storage

Information for safe 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.

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

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leakage.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Containers should be kept dry and sealed. Avoid heating over 50°C. Avoid cooling to under 0°C.

Storage class (VCI) : 10

08. Exposure controls and 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 particulates and solvent vapour 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)

HEXAMETHYLENE-DI-ISOCYANATE ; CAS-No. : 822-06-0

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 0.005 ppm / 0.035 mg/m³

Category : 1/=2=(I)

Version date : 01.01.2006

Personal protective equipment

Respiratory protection

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

Hand protection

Butylrubber >= 0,5mm >= 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.

Eye protection

Use safety glasses.

Body protection

Light protective clothing.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Colourless.
Odour : Earthy, musty.

Relevant safety data

Flash point : > 110 °C DIN 53213

10. Stability and reactivity

Conditions to avoid

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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.

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 :	ca. 490 mg/m ³
Test-period :	4 1 h
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

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

Ecotoxicological effects

Aquatic toxicity

Specification :	Toxicity to fish
Parameters :	LC0 Danio Rerio
Value / dosage :	>= 1000 mg/l
Test-period :	96 1 h
Specification :	Toxicity to daphnia
Parameters :	EC50 Spezies: Daphnia magna Straus 1820
Value / dosage :	>= 1000 mg/l
Test-period :	24 1 h
Specification :	Toxicity to bacteria
Parameters :	EC50

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- 2 Keep out of the reach of children.
- 35 This material and its container must be disposed of in a safe way.
- 37 Wear suitable gloves.
- 24 Avoid contact with skin.

Special designation for certain preparations

- 91 Contains isocyanates. See information provided by the manufacturer.

National regulatory information

Regulation on inflammable liquids (VbF)

VbF-Class : Not dangerous according to VbF

Emission control act ("TA-Luft")

- Sum organic substances class I : < 5 %
- Sum organic substances class III : < 5 %
- Sum cancerogen substances class III : < 1 %

Water pollution classification

Class : 2 according VwVwS

Other regulations

Observe UVV for handling of painting material (VBG 23). See also "recommendations for the handling of aromatic isocyanates". (BG-chemistry MO44).
Switzerland: Please refer to the guidelines of SUVA and EKAS. e.g.: "Guideline for preventing accidents when using two component resins" (SUVA 1854)

16. Other information

Processing instructions / technical data sheets

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

- 02. Hazardous components · 08. Components with critical values that require monitoring at the workplace (exposure limits) · 15. S-phrases

R-Phrases of components

- 10 Flammable.
- 20 Harmful by inhalation.
- 22 Harmful if swallowed.
- 23 Toxic by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 36/38 Irritating to eyes and skin.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 43 May cause sensitisation by skin contact.
- 48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.

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Department issuing data sheet

BASF Construction Chemicals Business Line Performance Flooring.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
