Material Safety Data Sheet

according to 91/155/EEC

Product name :	THORODECK PU 35, COMP B		
Revision :	11.07.2006	**Version :**	2.0.0
Print date :	07.08.2006		

01. Identification of substance, preparation and company

Product name

THORODECK PU 35, COMP B (F128110)

Manufacturer/Supplier

BASF Construction Chemicals (UK) Ltd.

Street/P.O.Box

19 Broad Ground Road Lakeside Industrial Estate /

Country code/Postal code/Town/City

B 98 8YP Redditch, Worcestershire

Telephone / Telefax

+44(0)161 794 7411 / +44(0)161 727 8547

Emergency information

Schweizer Toxzentrum +0041-1-2515151 (CH)
Centre Anti - Poison +0033 01 40 37 04 04 (FR)
Toxikologické informa-ní st-edisko +00420 224 919 293 (CZ)
Myrkytystietokeskus puh.(suora) +358 (0) 9 471 977 (vaihde) 094711 (FIN)

02. Composition/information on ingredients

Chemical characterization

Mixture of diphenylmethane diisocyanates and polymer constituents

Hazardous components

4,4´-METHYLENEDIPHENYL DIISOCYANATE ; EC-No. : 202-966-0 ; CAS-No. : 101-68-8

Percentage : 10 - 25 %
Classification : R 42/43 Xn ; R 20 Xi ; R 36/37/38

DIPHENYLMETHANE DIISOCYANATE: ISOMERES AND HOMOLOGES ; CAS-No. : 9016-87-9

Percentage : 10 - 25 %
Classification : R 42/43 Xn ; R 20 Xi ; R 36/37/38

MODIFIED MDI ; CAS-No. : 155662-82-1

Percentage : 10 - 25 %
Classification : R 42/43 Xn ; R 20 Xi ; R 36/37/38

DIPHENYLMETHANE-2,4´-DIISOCYANATE ; EC-No. : 227-534-9 ; CAS-No. : 5873-54-1

Percentage : 0.5 - 2.5 %
Classification : R 42/43 Xn ; R 20 Xi ; R 36/37/38

TOLUENE-2,4-DIISOCYANATE ; EC-No. : 209-544-5 ; CAS-No. : 584-84-9

Percentage : 0.1 - 0.5 %
Classification : T+ ; R 26 Carc. Cat.3 ; R 40 R 42/43 R 52/53 Xi ; R 36/37/38

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

03. Hazards identification

Hazard designation

May cause sensitisation by inhalation and skin contact. · Harmful by inhalation. · Irritating to eyes, respiratory system and skin.

Classification : R 42/43 · Xn ; R 20 · Xi ; R 36/37/38

04. First-aid measures

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 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)

4,4´-METHYLENEDIPHENYL DIISOCYANATE ; CAS-No. : 101-68-8

Specification :	TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value :	0.05 mg/m^3
Category :	1/=2=(I)
Version date :	01.01.2006

Specification :	TRGS 903 - biological maximum limits (D)
Parameter :	4,4´-Diaminodiphenylmethane / urine / end of exposure or shift
Value :	10 µg/g Kreatinin
Version date :	31.03.2004

DIPHENYLMETHANE DIISOCYANATE: ISOMERES AND HOMOLOGES ; CAS-No. : 9016-87-9

Specification :	threshold limit value (GB)
Value :	0.02 mg/m^3 / 8 h
Remarks :	MEL / TWA
Version date :	

Specification :	threshold limit value (GB)
Value :	0.07 mg/m^3 / 15 min
Remarks :	MEL / STEL
Version date :	

TOLUENE-2,4-DIISOCYANATE ; CAS-No. : 584-84-9

Specification :	TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value :	0.005 ppm / 0.035 mg/m^3
Category :	1/=4=(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

After washing hands replace lost skin fat by fat containing skin creams. Nitrilerubber >=0,35mm >= 480 min. 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 :	Dark-brown.
Odour :	Earthy, musty.

10. Stability and reactivity

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) CO_2 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

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 thightness 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, unsoluble and inert polyurea, liberating CO_2.

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

Product

Recommendation

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

Waste key

According to the actual waste legislation it is not possible for us to give the waste code because it depends on the application of the product that we do not know here. If you need some help to determine this code, please ask your executives. Disposal Code according to European Waste Catalog (EWC) please specify according to the use of product, e.g.: 080111* Waste from production, formulation, sales and application of paints and varnishes. Old paints and varnishes, containing organic solvents or some other dangerous product.

14. Transport information

Land transport ADR/RID

Classification

Class : -

Maritime transport IMDG/GGVSea

Classification

IMDG-Code : -

Air transport ICAO-TI and IATA-DGR

Classification

Class : -

15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation

Xn ; Harmful

Hazard-determining components of labelling

4,4´-METHYLENEDIPHENYL DIISOCYANATE ; CAS-No. : 101-68-8
DIPHENYLMETHANE DIISOCYANATE: ISOMERES AND HOMOLOGES ; CAS-No. : 9016-87-9
MODIFIED MDI ; CAS-No. : 155662-82-1
DIPHENYLMETHANE-2,4´-DIISOCYANATE ; CAS-No. : 5873-54-1
TOLUENE-2,4-DIISOCYANATE ; CAS-No. : 584-84-9

R-phrases

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

S-phrases

2	Keep out of the reach of children.
35	This material and its container must be disposed of in a safe way.
51	Use only in well-ventilated areas.

36/37	Wear suitable protective clothing and gloves.
46	If swallowed, seek medical advice immediately and show this container or lable.
64	If swallowed, rinse mouth with water (only if the person is conscious).
63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the lable where possible).
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Special designation for certain preparations

91	Contains isocyanates. See information provided by the manufacturer.

National regulatory information

Germany: Safety Instruction Code of german occupational safety and health organisation. Berufsgenossenschaften der Bauwirtschaft: GISCODE PU 40

Ordinance for average cases (StörfallV)

Dangerous ingredients according to StörfallV

TOLUENE-2,4-DIISOCYANATE ; CAS-No. : 584-84-9 ; Category : 37

Regulation on inflammable liquids (VbF)

VbF-Class : Not dangerous according to VbF

Emission control act ("TA-Luft")

Sum organic substances class I : 20 - 25 %

Sum organic substances class III : < 5 %

Sum cancerogen substances class III : < 1 %

Water pollution classification

Class : 1 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 guidlines of SUVA and EKAS. e.g.: "Guidline 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

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

R-Phrases of components

20	Harmful by inhalation.
26	Very toxic by inhalation.
36/37/38	Irritating to eyes, respiratory system and skin.
40	Limited evidence of a carcinogenic effect.
42/43	May cause sensitisation by inhalation and skin contact.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.