

# Material Safety Data Sheet

according to 91/155/EEC

**Product name :** PRIMER TC, PART 2  
**Revision :** 11.07.2006      **Version :** 2.0.0  
**Print date :** 07.08.2006

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## 01. Identification of substance, preparation and company

### Product name

PRIMER TC, PART 2 (F122834)

### 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 (vaihide) 094711 (FIN)

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## 02. Composition/information on ingredients

### Chemical characterization

Mixture of diphenylmethane diisocyanates and polymer constituents

### Hazardous components

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

Percentage : 50 - 100 %

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

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

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## 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

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## 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.

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## 05. Fire-fighting measures

### **Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, 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.

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## 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 (CO<sub>2</sub> may be given off).

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## 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

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## 08. Exposure controls and personal protection

### **Additional information about engineering measures**

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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<sup>3</sup>  
**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<sup>3</sup> / 8 h  
**Remarks :** MEL / TWA  
**Version date :**

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

## 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.

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## 09. Physical and chemical properties

### Image

**Form :** Liquid.  
**Colour :** Dark-brown.  
**Odour :** Earthy, musty.

### Relevant safety data

**Melting point / range :** ( 1013 hPa ) < 0 °C  
**Flash point :** ca. 220 °C      DIN 53213

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|                                  |           |     |                |                   |
|----------------------------------|-----------|-----|----------------|-------------------|
| <b>Flash point :</b>             | ca.       | 220 | °C             | DIN 53213         |
| <b>Ignition temperature :</b>    | >         | 400 | °C             |                   |
| <b>Density :</b>                 | ( 20 °C ) | ca. | 1.25           | g/cm <sup>3</sup> |
| <b>Solvent-separation test :</b> | ( 20 °C ) |     | not applicable |                   |
| <b>Viscosity :</b>               | ( 23 °C ) | ca. | 100            | mPa.s             |

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## 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<sub>2</sub> 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.

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## 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 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).

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## 12. Ecological information

Is converted in connection with water in a solid, insoluble and inert polyurea, liberating CO<sub>2</sub>.

### Additional ecological information

#### General ecological information

Do not empty into waters or drains.

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## 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.

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## 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 :** -

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## 15. Regulatory information

### Classification according to EC directives

**Danger symbol and danger designation**



Xn ; Harmful

### Hazard-determining components of labelling

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

### 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 label.  
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 label 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

### Regulation on inflammable liquids (VbF)

VbF-Class : Not dangerous according to VbF

### Water pollution classification

Class : 1 according KBwS

### Other regulations

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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)

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

### Department issuing data sheet

BASF Construction Chemicals Business Line Performance Flooring.

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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.

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