

# Safety data sheet

Page: 1/7

BASF Safety data sheet  
Date / Revised: 01.06.2009  
Product: **MASTERTOP BC 325 N, P.B**

Version: 2.0

(30472554/SDS\_GEN\_SG/EN)

Date of print 13.03.2010

## 1. Substance/preparation and company identification

### **MASTERTOP BC 325 N, P.B**

Use: Product for construction chemicals

Company:

BASF South East Asia Pte Ltd.  
7 Temasek Boulevard,  
#35-01 Suntec Tower One, 038987, SINGAPORE  
Telephone: +65 6 337-0330  
Telefax number: +65 6 334-0330  
E-mail address: tommy.chng@basf.com

Emergency information:

International emergency number:  
Telephone: +49 180 2273-112

## 2. Composition/information on ingredients

### Chemical nature

Blend based on: isocyanate

## 3. Hazard identification

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

## 4. First-aid measures

### General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

### If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

### On skin contact:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

### On contact with eyes:

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

### On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

### Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## 5. Fire-fighting measures

### Suitable extinguishing media:

foam, water spray, dry extinguishing media, carbon dioxide

### Unsuitable extinguishing media for safety reasons:

water jet

### Specific hazards:

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

### Special protective equipment:

Wear a self-contained breathing apparatus.

### Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

## 6. Accidental release measures

### Personal precautions:

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Sources of ignition should be kept well clear. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

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## 7. Handling and storage

### Handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

### Storage

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Store protected against freezing.

Protect from temperatures below: 10 °C

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## 8. Exposure controls and personal protection

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other  
Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face

(30472554/SDS\_GEN\_SG/EN)

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should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use.  
Replace if necessary (e.g. pinhole leaks).

## 9. Physical and chemical properties

|                            |  |                          |
|----------------------------|--|--------------------------|
| Form:                      | liquid   |                          |
| Colour:                    | slightly yellowish                                       |                          |
| Odour:                     | characteristic   |                          |
| Melting temperature:       | approx. -9 °C<br>(1,013 hPa)                             |                          |
| boiling temperature:       | 280 °C<br>(1,013 hPa)                                    |                          |
| Flash point:               | > 250 °C   | (DIN EN 22719; ISO 2719) |
| Ignition temperature:      | > 500 °C   |                          |
| Explosion hazard:          | not explosive  |                          |
| Fire promoting properties: | not fire-propagating                                     |                          |
| Vapour pressure:           | approx. 8 hPa<br>(approx. 20 °C)<br>< 100 hPa<br>(50 °C) |                          |
| Density:                   | approx. 1.22 g/cm <sup>3</sup><br>(20 °C)                |                          |
| Solubility in water:       | insoluble, Reacts with water.                            |                          |
| Viscosity, dynamic:        | approx. 270 mPa.s<br>(23 °C)                             |                          |

## 10. Stability and reactivity

Conditions to avoid:

See MSDS section 7 - Handling and storage.

Thermal decomposition: approx. 200 °C

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

## 11. Toxicological information

### Acute toxicity

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Assessment of acute toxicity:  
 Virtually nontoxic after a single ingestion. Of moderate toxicity after short-term inhalation.  
 EU-classification

LD50 rat (oral): > 2,000 mg/kg  
 other TS

LC50 rat (by inhalation): 490 mg als Aerosol/m<sup>3</sup> 4 h  
 The data on toxicology refer to the active ingredient. An aerosol was tested.

### Irritation

Assessment of irritating effects:  
 Eye contact causes irritation. Skin contact causes irritation. Irritates mucous membranes. Causes temporary irritation of the respiratory tract.

### Sensitization

Assessment of sensitization:  
 Sensitization after skin contact possible. The substance may cause sensitization of the respiratory tract.

### Repeated dose toxicity

Assessment of repeated dose toxicity:  
 The substance may cause damage to the lung after repeated inhalation of high doses.

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## 12. Ecological information

### Ecotoxicity

Assessment of aquatic toxicity:  
 There is a high probability that the product is not acutely harmful to aquatic organisms.  
 The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: methylenediphenyl diisocyanate

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on: methylenediphenyl diisocyanate

Toxicity to fish:

LC0 (96 h) > 1,000 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

Nominal concentration.

Information on: methylenediphenyl diisocyanate

Aquatic invertebrates:

EC0 (24 h) > 1,000 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Information on: methylenediphenyl diisocyanate  
Aquatic plants:  
No observed effect concentration (72 h) > 1,640 mg/l, Scenedesmus subspicatus (OECD Guideline 201)  
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Information on: methylenediphenyl diisocyanate  
Microorganisms/Effect on activated sludge:  
EC50 > 100 mg/l, activated sludge (OECD Guideline 209, aquatic)  
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### 13. Disposal considerations

Observe national and local legal requirements.  
Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:  
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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### 14. Transport information

**Domestic transport:**

Not classified as a dangerous good under transport regulations

**Sea transport**  
IMDG

Not classified as a dangerous good under transport regulations

**Air transport**  
IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory information

**Regulations of the European union (Labelling)**EEC Directives:

Hazard symbol(s)  
Xn Harmful.

R-phrases(s)

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|             |   |
|-------------|---|
| R42/43      | May cause sensitization by inhalation and skin contact.   |
| R20         | Harmful by inhalation.  |
| R36/37/38   | Irritating to eyes, respiratory system and skin.  |
| S-phrase(s) |   |
| S2          | Keep out of the reach of children.  |
| S35         | This material and its container must be disposed of in a safe way.  |
| S51         | Use only in well-ventilated areas.  |
| S36/37      | Wear suitable protective clothing and gloves.   |
| S46         | If swallowed, seek medical advice immediately and show this container or label.                             |
| 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.               |
| S64         | If swallowed, rinse mouth with water (only if the person is conscious).                                     |

Contains isocyanates. Observe manufacturer's instructions.

Hazard determining component(s) for labelling: DIPHENYLMETHANE-4,4'-DIISOCYANATE (MDI), METHYLENEDIPHENYLDIISOCYANATE, POLYFUNCTIONAL ISOCYANATE

### Other regulations

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## 16. Other information

Due to the merger of Degussa Construction chemicals and BASF Group all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us under the address mentioned in Section I.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.