

Safety data sheet

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BASF Safety data sheet

Date / Revised: 12.04.2010

Product: **MASTERTOP TC 467 C-N,PART B TRANSPARENT**

Version: 1.0

(30352860/SDS_GEN_SG/EN)

Date of print 13.04.2010

1. Substance/preparation and company identification

MASTERTOP TC 467 C-N,PART B TRANSPARENT

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

Preparation based on: polyisocyanate

Hazardous ingredients

1,6-hexamethylene diisocyanate
Content (W/W): $\geq 0.1\%$ - $\leq 1.9\%$
CAS Number: 822-06-0
EC-Number: 212-485-8
INDEX-Number: 615-011-00-1
Hazard symbol(s): T
R-phrases: 23, 36/37/38, 42/43

Hexane, 1,6-diisocyanato-, homopolymer

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Content (W/W): $\geq 50\%$ - $\leq 100\%$
CAS Number: 28182-81-2
Hazard symbol(s): Xi
R-phrase(s): 43

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

3. Hazard identification

Harmful by inhalation.
May cause sensitization by inhalation and skin contact.

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:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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.

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.

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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. 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.

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

Suitable materials for containers: tin (tinplate)

Further information on storage conditions: Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight.

8. Exposure controls and personal protection

Components with workplace control parameters

1,6-hexamethylene diisocyanate, 822-06-0;

TWA value 0.005 ppm (ACGIHTLV)

TWA value 0.034 mg/m³ ; 0.005 ppm (OEL (SG))

Hexane, 1,6-diisocyanato-, homopolymer, 28182-81-2;

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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 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	
Odour:	product specific	
Boiling point:	(1,013 hPa) No data available.	
Flash point:	> 110 °C	(DIN 53213-1)
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	(50 °C) No data available.	
Density:	approx. 1.11 g/cm ³ (20 °C)	
Viscosity, dynamic:	600 - 800 mPa.s (23 °C)	

10. Stability and Reactivity

Conditions to avoid:
See MSDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

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

Assessment of acute toxicity:
Harmful by inhalation.

Information on: 1,6-hexamethylene diisocyanate
LD50 rat (oral): 746 - 959 mg/kg (other)

Information on: 1,6-hexamethylene diisocyanate
LC50 rat (by inhalation): 0.124 mg/l 4 h (OECD Guideline 403)
The European Union (EU) has classified this substance as 'toxic'. An aerosol with respiratory particles was tested.

Information on: 1,6-hexamethylene diisocyanate
LD50 rabbit (dermal): 599 mg/kg (other)

Sensitization

Information on: 1,6-hexamethylene diisocyanate
Assessment of sensitization:
The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible.

12. Ecological Information

Ecotoxicity

Information on: Hexane, 1,6-diisocyanato-, homopolymer
Toxicity to fish:
LC0 (96 h) >= 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 92/69/EEC, C.1, static)
The product may hydrolyse. The test result maybe partially due to degradation products. The product has low solubility in the test medium. An eluate has been tested.

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Information on: Hexane, 1,6-diisocyanato-, homopolymer

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Nominal concentration. The product may hydrolyse. The test result maybe partially due to degradation products. The product has not been tested. The statement has been derived from products of a similar structure and composition.

Information on: Hexane, 1,6-diisocyanato-, homopolymer

Aquatic plants:

EC50 (72 h) > 50 - < 100 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201, static)

Nominal concentration. The product has low solubility in the test medium. An eluate has been tested. The product may hydrolyse. The test result maybe partially due to degradation products.
-----**Additional information**

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels.

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.

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

15. Regulatory Information

Regulations of the European union (Labelling)

Directive 1999/45/EC ('Preparation Directive'):

Hazard symbol(s)	
Xn	Harmful.
R-phrases(s)	
R20	Harmful by inhalation.
R42/43	May cause sensitization by inhalation and skin contact.
S-phrases(s)	
S2	Keep out of the reach of children.
S37	Wear suitable gloves.
S24	Avoid contact with skin.
S23.11	Do not breathe gas/vapour/spray.
S51	Use only in well-ventilated areas.
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).
S35	This material and its container must be disposed of in a safe way.

Contains isocyanates. Observe manufacturer's instructions.
 May produce an allergic reaction.

Hazard determining component(s) for labelling: HEXAMETHYLENE-1,6-DIISOCYANATE,
 POLYFUNCTIONAL ISOCYANATE

Other regulations

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.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

T	Toxic.
Xi	Irritant.
23	Toxic by inhalation.

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36/37/38

Irritating to eyes, respiratory system and skin.

42/43

May cause sensitization by inhalation and skin contact.

43

May cause sensitization by skin contact.

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.