

Safety data sheet

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BASF Safety data sheet
Date / Revised: 02.03.2010
Product: **MASTERTOP TC 441 CLEAR P.A**

Version: 1.0

(30413085/SDS_GEN_SG/EN)

Date of print 13.03.2010

1. Substance/preparation and company identification

MASTERTOP TC 441 CLEAR P.A

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

Contains: polyisocyanate, aliphatic

Hazardous ingredients

Hexane, 1,6-diisocyanato-, homopolymer
Content (W/W): $\geq 50\%$ - $\leq 100\%$
CAS Number: 28182-81-2
Hazard symbol(s): Xi
R-phrases: 43

Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-

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Content (W/W): $\geq 0.5\%$ - $\leq 2.5\%$
CAS Number: 23328-53-2
EC-Number: 401-680-5
Hazard symbol(s): N
R-phrase(s): 51/53

Solvent naphtha (petroleum), light arom.

Content (W/W): $\geq 0.1\%$ - $\leq 0.5\%$
CAS Number: 64742-95-6
EC-Number: 265-199-0
INDEX-Number: 649-356-00-4
Hazard symbol(s): Xn, N
R-phrase(s): 10, 65, 66, 67, 51/53

1,6-hexamethylene diisocyanate

Content (W/W): $\geq 0.1\%$ - $\leq 0.5\%$
CAS Number: 822-06-0
EC-Number: 212-485-8
INDEX-Number: 615-011-00-1
Hazard symbol(s): T
R-phrase(s): 23, 36/37/38, 42/43

1,2,4-trimethylbenzene

Content (W/W): $\geq 0.1\%$ - $\leq 0.5\%$
CAS Number: 95-63-6
EC-Number: 202-436-9
INDEX-Number: 601-043-00-3
Hazard symbol(s): Xn, N
R-phrase(s): 10, 20, 36/37/38, 51/53

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

3. Hazard identification

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
carbon monoxide, carbon dioxide, harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. The degree of risk is governed by the burning substance and the fire conditions. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:
Do not breathe vapour/aerosol/spray mists. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

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 suitable appliance and dispose of. Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust). Dispose of contaminated material as prescribed.
For large amounts: Pump off product.

7. Handling and Storage

Handling

Avoid aerosol formation. Avoid inhalation of dusts/mists/vapours. Keep container tightly sealed. No special measures necessary provided product is used correctly.

Protection against fire and explosion:

The substance/product is non-combustible. The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

Storage

Segregate from metals. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

Suitable materials for containers: tin (tinplate), High density polyethylene (HDPE)

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep away from heat. Store protected against freezing. Keep only in the original container.

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))

1,2,4-trimethylbenzene, 95-63-6;

TWA value 25 ppm (ACGIHTLV)

TWA value 123 mg/m³ ; 25 ppm (OEL (SG))

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:

Avoid contact with the skin, eyes and clothing. 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	
Colour:	various, depending on the colourant	
Odour:	characteristic	
Flash point:	> 100 °C	(DIN 53213-1)
Self ignition:		not self-igniting
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	Unspecified	
Density:	approx. 1.5 g/cm ³ (20 °C)	
Solubility in water:	insoluble	
Viscosity, dynamic:	3,000 mPa.s (20 °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 alkalis, strong oxidizing agents

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

11. Toxicological Information

Irritation

Assessment of irritating effects:

Prolonged contact with the product can result in skin irritation. May cause slight irritation to the eyes.

Sensitization

Can sensitize the skin and/or respiratory tract of allergic persons.

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

Experiences in humans

According to experience, the product is considered to be harmless to health if used in the correct manner.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

No data available concerning aquatic toxicity. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1,2,4-trimethylbenzene

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Information on: 1,2,4-trimethylbenzene

Toxicity to fish:

LC50 (8 d) 7.4 mg/l, Pimephales promelas (Flow through.)

Literature data.

Information on: 1,2,4-trimethylbenzene

Aquatic invertebrates:

EC50 (48 h) approx. 6.14 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An eluate has been tested. Literature data.

Information on: 1,2,4-trimethylbenzene

Aquatic plants:

EC50 (72 h) 1 - 2 mg/l (growth rate), Chlorella sp. (static)

Literature data.

Bioaccumulation potential

Information on: 1,2,4-trimethylbenzene

Bioaccumulation potential:

Bioconcentration factor: 33 - 275 (56 d), *Cyprinus carpio* (OECD Guideline 305 C)The product may be accumulated in organisms.
-----**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.

The waste code in accordance with the European waste catalog (EWC) must be specified in cooperation with disposal agency/manufacturer/authorities.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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)

Xi

Irritant.

R-phrases(s)

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R43 May cause sensitization by skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S2 Keep out of the reach of children.
 S24 Avoid contact with skin.
 S35 This material and its container must be disposed of in a safe way.
 S37 Wear suitable gloves.
 S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Contains isocyanates. Observe manufacturer's instructions.

Hazard determining component(s) for labelling: 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:

Xi	Irritant.
N	Dangerous for the environment.
Xn	Harmful.
T	Toxic.
43	May cause sensitization by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
10	Flammable.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
23	Toxic by inhalation.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitization by inhalation and skin contact.
20	Harmful by inhalation.

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.