

# Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No.1907/2006

Date / Revised: 04.02.2008

Version: 1.1

Product: **MASTERTOP P 681,PART B**

(30352708/SDS\_GEN\_EU/EN)

Date of print 09.07.2008

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## 1. Substance/preparation and company identification

### **MASTERTOP P 681,PART B**

Use: Product for construction chemicals

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Construction Chemicals

Telephone: +49 621 60-74270 / 74400

Telefax number: +49 621 60-76343

E-mail address: info.construction-chemicals@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazard identification

Causes burns.

May cause sensitization by skin contact.

Harmful if swallowed.

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

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## 3. Composition/information on ingredients

Chemical nature

Blend based on: polyamine, modified

### Hazardous ingredients

**|** trimethylhexane-1,6-diamineContent (W/W):  $\geq 25\%$  -  $\leq 50\%$ 

CAS Number: 25620-58-0

EC-Number: 247-134-8

Hazard symbol(s): C

R-phrase(s): 22, 34, 43, 52/53

**|** benzyl alcoholContent (W/W):  $\geq 10\%$  -  $\leq 25\%$ 

CAS Number: 100-51-6

EC-Number: 202-859-9

INDEX-Number: 603-057-00-5

Hazard symbol(s): Xn

R-phrase(s): 20/22

**|** 3-aminomethyl-3,5,5-trimethylcyclohexylamineContent (W/W):  $\geq 10\%$  -  $\leq 25\%$ 

CAS Number: 2855-13-2

EC-Number: 220-666-8

INDEX-Number: 612-067-00-9

Hazard symbol(s): C

R-phrase(s): 21/22, 34, 43, 52/53

**|** 2,4,6-tris(dimethylaminomethyl)phenolContent (W/W):  $\geq 2.5\%$  -  $\leq 10\%$ 

CAS Number: 90-72-2

EC-Number: 202-013-9

INDEX-Number: 603-069-00-0

Hazard symbol(s): Xn

R-phrase(s): 22, 36/38

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

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## 4. First-aid measures

### General advice:

First aid personnel should pay attention to their own safety. Change contaminated clothing and shoes. Keep patient calm, remove to fresh air, seek medical attention.

### If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention. Remove the affected individual into fresh air and keep the person calm.

### On skin contact:

After contact with skin, wash immediately with plenty of water and soap. Immediate medical attention required.

On contact with eyes:

Flush with copious amounts of water for at least 15 minutes. Immediate medical attention required.

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. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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## 5. Fire-fighting measures

Suitable extinguishing media:

alcohol-resistant foam, water spray, dry extinguishing media, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

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:

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

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## 6. Accidental release measures

Personal precautions:

Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective 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.

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## 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 product is combustible.

### Storage

Segregate from foods and animal feeds. Segregate from oxidants. Segregate from alkalies and alkalinizing substances. Segregate from strong acids.

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

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## 8. Exposure controls and personal protection

### Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

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/face shield

Body protection:

protective overalls, heavy materials, acid- resp. lye-proof apron, e.g. of rubber (f.e. according to EN 14605)

General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. 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).

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## 9. Physical and chemical properties

|         |                          |
|---------|--------------------------|
| Form:   | liquid                   |
| Colour: | colourless               |
| Odour:  | amine-like, ammonia-like |

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Boiling point: No data available.

Flash point: > 100 °C

Vapour pressure: No data available.

Density: 1.01 g/cm<sup>3</sup>  
(20 °C)

Viscosity, dynamic: 700 mPa.s  
(20 °C)

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## 10. Stability and reactivity

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

Thermal decomposition: No decomposition if used as directed.

Substances to avoid:  
zinc, aluminium, oxidizing agents, strong alkalis, strong acids

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

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## 11. Toxicological information

### Acute toxicity

*Information on: 3-aminomethyl-3,5,5-trimethylcyclohexylamine*

*LD50 rat (oral): 1,030 mg/kg*

*Literature data.*  
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*Information on: benzyl alcohol*

*LC50 rat (by inhalation): > 4.1 mg/l 4 h (OECD Guideline 403)*

*The European Union (EU) has classified this substance as 'harmful'. An aerosol was tested.*  
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*Information on: benzyl alcohol*

*LD50 rabbit (dermal): 2,000 mg/kg*  
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### Irritation

*Information on: 3-aminomethyl-3,5,5-trimethylcyclohexylamine*

*Primary skin irritation rabbit: Corrosive.*

| *Literature data.*

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 | *Information on: 3-aminomethyl-3,5,5-trimethylcyclohexylamine*  
 | *Primary irritations of the mucous membrane rabbit: Risk of serious damage to eyes. (OECD*  
 | *Guideline 405)*  
 | *Literature data.*  
 | -----

**Sensitization**

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 | *Information on: 3-aminomethyl-3,5,5-trimethylcyclohexylamine*  
 | *Guinea pig maximization test guinea pig: sensitizing (OECD Guideline 406)*  
 | *Literature data.*  
 | -----

**Other relevant toxicity information**

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

**12. Ecological information****Ecotoxicity**

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 | *Information on: benzyl alcohol*  
 | *Toxicity to fish:*  
 | *LC50 (96 h) 10 mg/l, Lepomis macrochirus (static)*  
 | *The details of the toxic effect relate to the nominal concentration. Literature data.*  
 | -----

-----  
 | *Information on: benzyl alcohol*  
 | *Aquatic invertebrates:*  
 | *EC50 (24 h) 55 mg/l, Daphnia magna (static)*  
 | *The details of the toxic effect relate to the nominal concentration. Literature data.*  
 | -----

-----  
 | *Information on: 3-aminomethyl-3,5,5-trimethylcyclohexylamine*  
 | *Aquatic invertebrates:*  
 | *EC50 (48 h) 23 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)*  
 | *The details of the toxic effect relate to the nominal concentration.*  
 | -----

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 | *Information on: benzyl alcohol*  
 | *Aquatic plants:*  
 | *Toxic limit concentration (96 h) 640 mg/l (biomass), Scenedesmus quadricauda (static)*  
 | *Nominal concentration. Literature data.*  
 | -----

-----  
 | *Information on: 3-aminomethyl-3,5,5-trimethylcyclohexylamine*  
 | *Aquatic plants:*  
 | *EC50 (72 h) > 50 mg/l (growth rate), Scenedesmus subspicatus (Directive 88/302/EEC, part C, p. 89)*  
 | *Nominal concentration. Literature data.*  
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**Persistence and degradability**| *Information on: benzyl alcohol*| *Elimination information:*| **92 - 96 % BOD of the ThOD (28 d) (OECD 301C; ISO 9408; 92/69/EEC, C.4-F) (activated sludge)**| *Information on: 3-aminomethyl-3,5,5-trimethylcyclohexylamine*| *Elimination information:*| **8 % DOC reduction (28 d) (Directive 92/69/EEC, C.4-A) (aerobic, predominantly domestic sewage)**| **42 % DOC reduction (31 d) (OECD 303A; ISO 11733; 92/69 EEC,V, C.10) (aerobic, activated sludge)**

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**Additional information**

Other ecotoxicological advice:

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

**13. Disposal considerations**

Observe national and local legal requirements.

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****Land transport**

ADR

|                       |  |
|-----------------------|--|
| Hazard class:         | 8  |
| Packing group:        | III  |
| ID number:            | UN 2735  |
| Hazard label:         | 8  |
| Proper shipping name: | AMINES, LIQUID, CORROSIVE, N.O.S. (contains TRIMETHYLHEXANE-1,6-DIAMINE) |

RID

|                       |  |
|-----------------------|--|
| Hazard class:         | 8  |
| Packing group:        | III  |
| ID number:            | UN 2735  |
| Hazard label:         | 8  |
| Proper shipping name: | AMINES, LIQUID, CORROSIVE, N.O.S. (contains TRIMETHYLHEXANE-1,6-DIAMINE) |

**Inland waterway transport****ADNR**

Hazard class: 8  
 Packing group: III  
 ID number: UN 2735  
 Hazard label: 8  
 Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains TRIMETHYLHEXANE-1,6-DIAMINE)

**Sea transport****IMDG**

Hazard class: 8  
 Packing group: III  
 ID number: UN 2735  
 Hazard label: 8  
 Marine pollutant: NO  
 Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains TRIMETHYLHEXANE-1,6-DIAMINE)

**Air transport****IATA/ICAO**

Hazard class: 8  
 Packing group: III  
 ID number: UN 2735  
 Hazard label: 8  
 Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains TRIMETHYLHEXANE-1,6-DIAMINE)

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**15. Regulatory information****Regulations of the European union (Labelling) / National legislation/Regulations****EEC Directives:**

Hazard symbol(s)  
 C Corrosive.

R-phrase(s)  
 R34 Causes burns.  
 R43 May cause sensitization by skin contact.  
 R22 Harmful if swallowed.  
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

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|           |   |
|-----------|---|
| S1/2      | Keep locked-up and out of reach of children.  |
| S13       | Keep away from food, drink and animal feeding stuffs.   |
| S20/21    | When using do not eat, drink or smoke.  |
| S26       | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.               |
| S36/37/39 | Wear suitable protective clothing, gloves and eye/face protection.  |
| S45       | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |

Hazard determining component(s) for labelling: TRIMETHYLHEXANE-1,6-DIAMINE,  
ISOPHORONEDIAMINE

### Other regulations

GISCODE RE 1

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## 16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

|       |   |
|-------|---|
| C     | Corrosive.  |
| Xn    | Harmful.  |
| 22    | Harmful if swallowed.   |
| 34    | Causes burns.   |
| 43    | May cause sensitization by skin contact.  |
| 52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 20/22 | Harmful by inhalation and if swallowed.   |
| 21/22 | Harmful in contact with skin and if swallowed.  |
| 36/38 | Irritating to eyes and skin.  |

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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.