

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 27.09.2010

Version: 1.0

Product: **MASTERTOP 542 ECC PART A**(30444596/SDS\_GEN\_SG/EN)

Date of print 22.03.2011

## 1. Substance/preparation and company identification

### MASTERTOP 542 ECC PART A

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. Hazard identification

Classification of the substance and mixture:

Skin corrosion/irritation: Cat. 2

Serious eye damage/eye irritation: Cat. 2A

Skin sensitizer: Cat. 1

Acute hazards to the aquatic environment: Cat. 2

Chronic hazards to the aquatic environment: Cat. 2

Label elements and precautionary statement:

Pictogram:



Signal Word:

Warning

Hazard Statement:

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary Statements (Prevention):**

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Contaminated work clothing should not be allowed out of the workplace. Wash with plenty of water and soap thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements (Response):**

Collect spillage. If eye irritation persists: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (on hair): Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

**Precautionary Statements (Disposal):**

Dispose of contents/container to hazardous or special waste collection point.

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### 3. Composition/information on ingredients

**Chemical nature**

Preparation based on: epoxy resin, fillers, pigments

**Hazardous ingredients**

Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight  $\leq$  700)

Content (W/W): $\geq$ 40 % - $\leq$ 70 %	Skin corr./irr.: Cat. 2
CAS Number: 25068-38-6	Eye dam./irr.: Cat. 2A
	Skin sens.: Cat. 1
	Eco acute: Cat. 2
	Eco chronic: Cat. 2

Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol

Content (W/W):  $\geq$  10 % -  $\leq$  20 %  
CAS Number: 9003-36-5

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### 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.

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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.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon monoxide, carbon dioxide, 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.

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## 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.

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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.

Protection against fire and explosion:

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

Take precautionary measures against static discharges.

### 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. Store protected against freezing.

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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:

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).

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## 9. Physical and Chemical Properties

Form: liquid  
Colour: white  
Odour: slight odour

pH value: neutral to slightly alkaline

Flash point: > 200 °C (DIN 51758)

Flammability (solid/gas): not highly flammable

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

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Explosion hazard:	not explosive	
Density:	approx. 1.1 g/cm <sup>3</sup> (20 °C)	(DIN 51757)
Solubility in water:	not soluble (20 °C)	
Partitioning coefficient n-octanol/water (log Pow):	Unspecified	
Viscosity, dynamic:	approx. 90 - 130 mPa.s (25 °C)	

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## 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.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 10,000 mg/kg

### Irritation

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

### Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

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

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## 12. Ecological Information

### Ecotoxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: bisphenol A-epichlorohydrin resin

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on: Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Information on: bisphenol A-epichlorohydrin resin

Toxicity to fish:

LC50 (96 h) 1.41 mg/l, *Oryzias latipes* (JIS K 0102-71, semistatic)

Information on: Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol

Toxicity to fish:

LC50 1 - 10 mg/l, Fish

Information on: bisphenol A-epichlorohydrin resin

Aquatic invertebrates:

EC50 1 - 10 mg/l, daphnia

Literature data.

EC50 (48 h) 12 mg/l, *Daphnia magna* (Daphnia test acute, static)

Information on: Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol

Aquatic invertebrates:

EC50 1 - 10 mg/l, daphnia

Information on: bisphenol A-epichlorohydrin resin

Aquatic plants:

EC50 (96 h) 9.1 mg/l, *Selenastrum capricornutum* (Algal growth inhibition test, static)

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

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

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Information on: bisphenol A-epichlorohydrin resin

Information on: Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol  
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### Bioaccumulation potential

Bioaccumulation potential:

Accumulation in organisms is expected. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: bisphenol A-epichlorohydrin resin

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible. Literature data.

Information on: Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol

Bioaccumulation potential:

The product will not be readily bioavailable due to its consistency and insolubility in water.  
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### Additional information

Other ecotoxicological advice:

Acutely toxic for aquatic organisms. Do not discharge product into the environment without control.

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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:

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

### Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082

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Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

**Air transport**

IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

**15. Regulatory Information****Regulations of the European union (Labelling)**

as in Annex I of Directive 67/548/EEC:

Hazard symbol(s)	
Xi	Irritant.
N	Dangerous for the environment.
R-phrase(s)	
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	
S2	Keep out of the reach of children.
S24/25	Avoid contact with skin and eyes.
S28.1	After contact with skin, wash immediately with plenty of water and soap.
S37/39	Wear suitable gloves and eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Contains epoxy-containing compounds. Observe manufacturer's instructions.  
May produce an allergic reaction.

Hazard determining component(s) for labelling: Reaction product:  
bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)

**Other regulations**

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as in Annex I of Directive 67/548/EEC

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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.