

Safety data sheet

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BASF Safety data sheet
Date / Revised: 02.03.2010
Product: **MASTERTOP 1110 RAL7046 PTA**

Version: 2.0

(30444474/SDS_GEN_SG/EN)

Date of print 29.07.2011

1. Substance/preparation and company identification

MASTERTOP 1110 RAL7046 PTA

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: epoxy resin, modified, fillers, pigments

Hazardous ingredients

Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)

Content (W/W): >= 25 % - <= 50 %

CAS Number: 25068-38-6

EC-Number: 500-033-5

INDEX-Number: 603-074-00-8

Hazard symbol(s): Xi, N

R-phrases: 36/38, 43, 51/53

Oxirane, (chloromethyl)-, polymer with .alpha.-hydro-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]

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Content (W/W): $\geq 2.5\%$ - $\leq 10\%$
CAS Number: 9072-62-2
Hazard symbol(s): Xi
R-phrases(s): 36/38, 43

Acetamide, 2-chloro-

Content (W/W): $\geq 0.1\%$ - $\leq 0.5\%$
CAS Number: 79-07-2
EC-Number: 201-174-2
INDEX-Number: 616-036-00-0
Hazard symbol(s): T
R-phrases(s): 25, 43, 62

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

3. Hazard identification

Irritating to eyes and skin.
May cause sensitization by skin contact.
Toxic 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:

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foam, water spray, dry extinguishing media, carbon dioxide

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:

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.

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. Avoid all sources of ignition: heat, sparks, open flame.

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

For large amounts: Pump off product.

Do not discharge into drains/surface waters/groundwater.

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. Vapours may form explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

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

Suitable materials for containers: High density polyethylene (HDPE), tin (tinplate), Polypropylene
Further information on storage conditions: Containers should be stored tightly sealed in a dry place.
Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

8. Exposure controls and personal protection

Components with workplace control parameters

| Benzyl alcohol, 100-51-6;

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

pH value: not applicable

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(DIN 53213-1)

Flash point: > 100 °C
Flammability: not highly flammable
Explosion hazard: not explosive

Density: approx. 1.4 g/cm³
(20 °C)

Solubility in water: insoluble
(20 °C)

Viscosity, dynamic: approx. 8,000 mPa.s
(20 °C)

10. Stability and Reactivity

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

Substances to avoid:
amines

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:
Virtually nontoxic after a single ingestion.

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

Irritation

Assessment of irritating effects:
Eye contact causes irritation. Skin contact causes irritation.

Sensitization

Assessment of sensitization:
Sensitization after skin contact possible.

The European Union (EU) has classified this substance as skin-sensitizing (R43).

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

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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.

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

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

Aquatic invertebrates:

EC50 1 - 10 mg/l, daphnia

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

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

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

Microorganisms/Effect on activated sludge:

EC50 > 100 mg/l, activated sludge (aquatic)

Literature data.

Additional information**Other ecotoxicological advice:**

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

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**Sea transport****IMDG**

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-F-EPICHLORHYDRIN RESINS)

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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 BIPHENOL-F-EPICHLORHYDRIN RESINS)

15. Regulatory Information**Regulations of the European union (Labelling)**Directive 1999/45/EC ('Preparation Directive'):

Hazard symbol(s)

Xi	Irritant.
N	Dangerous for the environment.

R-phrases(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-phrases(s)

S2	Keep out of the reach of children.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29/35	Do not empty into drains, this material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
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.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

Contains epoxy-containing compounds. Observe manufacturer's instructions.

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

Hazard symbol(s)

Xi	Irritant.
N	Dangerous for the environment.

R-phrases(s)

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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.
S28	After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
S37/39	Wear suitable gloves and eye/face protection.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Contains epoxy-containing compounds. Observe manufacturer's instructions.

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

Other regulations

as in Annex I of Directive 67/548/EEC

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.
T	Toxic.
36/38	Irritating to eyes and skin.
43	May cause sensitization by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
25	Toxic if swallowed.
62	Possible risk of impaired fertility.

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.