

Safety data sheet

Page: 1/9

BASF Safety data sheet

Date / Revised: 12.08.2009

Product: **MASTERTOP TC 473 COLORED PART A**

Version: 2.0

(30511524/SDS_GEN_SG/EN)

Date of print 11.05.2010

1. Substance/preparation and company identification

MASTERTOP TC 473 COLORED 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. Composition/information on ingredients

Chemical nature

epoxy resin, modified

Hazardous ingredients

bisphenol A-epichlorohydrin resin

Content (W/W): $\geq 25\%$ - $\leq 50\%$
CAS Number: 25068-38-6
Hazard symbol(s): Xi, N
R-phrases(s): 36/38, 43, 51/53

Bisphenol epoxy resin

Content (W/W): $\geq 2.5\%$ - $\leq 10\%$
CAS Number: 9003-36-5
EC-Number: 500-006-8
Hazard symbol(s): Xi, N
R-phrases(s): 36/38, 43, 51/53

Benzyl alcoholContent (W/W): $\geq 2.5\%$ - $\leq 10\%$

CAS Number: 100-51-6

EC-Number: 202-859-9

INDEX-Number: 603-057-00-5

Hazard symbol(s): Xn

R-phrases: 20/22

1-methoxy-2-propylacetateContent (W/W): $\geq 0.5\%$ - $\leq 2.5\%$

CAS Number: 108-65-6

EC-Number: 203-603-9

INDEX-Number: 607-195-00-7

Hazard symbol(s): Xi

R-phrases: 10, 36

Neodecanoic acid, oxiranylmethyl esterContent (W/W): $\geq 0.5\%$ - $\leq 2.5\%$

CAS Number: 26761-45-5

EC-Number: 247-979-2

Hazard symbol(s): Xi, N

R-phrases: 38, 43, 51/53

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

3. Hazard identification

Irritant.

Dangerous for the environment.

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:

foam, water spray, dry extinguishing media

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:

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. 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.

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.

Avoid raising dust.

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. Take precautionary measures against static discharges.

Storage

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

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Store protected against freezing.

8. Exposure controls and personal protection

Components with workplace control parameters

1-methoxy-2-propylacetate, 108-65-6;

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 materials short-term contact and/or splashes (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374)

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

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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:	specific	
Flash point:	> 100 °C	(DIN 53213-1)
Self ignition:		not self-igniting
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Density:	approx. 1.6 g/cm ³ (20 °C)	
Solubility in water:	insoluble (20 °C)	
Viscosity, dynamic:	approx. 2,300 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 bases, strong oxidizing agents

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

11. Toxicological Information

Acute toxicity

Information on: 1-methoxy-2-propylacetate
LD50 rat (oral): > 5,000 mg/kg

Information on: 1-methoxy-2-propylacetate
LC50 rat (by inhalation): > 2000 ppm

Information on: 1-methoxy-2-propylacetate

LD50 rabbit (dermal): > 5,000 mg/kg

Irritation

Information on: 1-methoxy-2-propylacetate
Primary skin irritation rabbit: non-irritant

Information on: 1-methoxy-2-propylacetate
Primary irritations of the mucous membrane rabbit: non-irritant
The European Union (EU) has classified this substance with 'Irritating to eyes'.(R36).

Sensitization

Information on: 1-methoxy-2-propylacetate
Guinea pig maximization test guinea pig: Non-sensitizing.

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

Assessment of aquatic toxicity:
At the present state of knowledge, no negative ecological effects are expected.

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

Additional information

Other ecotoxicological advice:

(30511524/SDS_GEN_SG/EN)

Date of print 11.05.2010

The product has not been tested. The statement has been derived from the properties of the individual components. Do not discharge product into the environment without control.

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:

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
Hazard label: 9, EHSM
Marine pollutant: NO
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)

EEC Directives:

Hazard symbol(s)

Xi Irritant.
 N Dangerous for the environment.

R-phrases(s)

R43 May cause sensitization by skin contact.
 R36/38 Irritating to eyes and skin.
 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.
 S37 Wear suitable gloves.
 S46 If swallowed, seek medical advice immediately and show this container or label.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S24/25 Avoid contact with skin and eyes.
 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: BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700, BISPHENOL-F-EPICHLORHYDRIN RESINS, 2,3-EPOXYPROPYL NEODECANOATE

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.

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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.
 36/38 Irritating to eyes and skin.
 43 May cause sensitization by skin contact.

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51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
20/22	Harmful by inhalation and if swallowed.
10	Flammable.
36	Irritating to eyes.
38	Irritating to skin.

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.