

Safety data sheet

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

Date / Revised: 04.11.2010

Version: 1.0

Product: **MASTERFLOW 622 PART B**

(30362759/SDS_GEN_EU/EN)

Date of print 23.12.2010

1. Identification of the substance/mixture and of the company/undertaking

MASTERFLOW 622 PART B

Use: Product for construction chemicals

Company:

BASF South East Asia Pte Ltd.

7 Temasek Boulevard,

#35-01 Suntec Tower One, 038987, SINGAPORE

Contact address:

BASF SE

67056 Ludwigshafen

GERMANY

Telephone: +49 621 60-0

E-mail address: global.info@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)

Harmful in contact with skin.

Causes burns.

May cause sensitization by skin contact.

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

3. Composition/Information on Ingredients

Chemical nature

Preparation based on: amines, epoxide

Hazardous ingredients

according to Directive 1999/45/EC

triethylenetetramine

Content (W/W): $\geq 50\%$ - $< 75\%$

CAS Number: 112-24-3

EC-Number: 203-950-6

INDEX-Number: 612-059-00-5

Hazard symbol(s): C

R-phrases: 21, 34, 43, 52/53

bisphenol A-epichlorohydrin resin

Content (W/W): $\geq 20\%$ - $< 25\%$

CAS Number: 25068-38-6

Hazard symbol(s): Xi, N

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

2,3-Epoxypropyl neodecanoate

Content (W/W): $\geq 7\%$ - $< 10\%$

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.

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Immediately 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:

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.

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 dioxide, carbon monoxide, nitrogen oxides, fumes/smoke, carbon black, corrosive gases/vapours

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.

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.

7. Handling and Storage

Handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. Ensure adequate ventilation. 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.

Storage

Suitable materials for containers: tin (tinplate)

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/Personal Protection

Components with workplace control parameters

112-24-3: triethylenetetramine

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:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. 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
Odour:	product specific
pH value:	neutral to slightly alkaline
Flash point:	negligible
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Density:	1.02 g/cm ³ (20 °C)
Bulk density:	not applicable

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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:

zinc, aluminium, oxidizing agents, strong alkalies, acids

Hazardous reactions:

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after short-term skin contact.

Experimental/calculated data:

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

Irritation

Assessment of irritating effects:

Corrosive! Damages skin and eyes.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Experimental/calculated data:

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

Carcinogenicity

Assessment of carcinogenicity:

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

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.

Other relevant toxicity information

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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:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. 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.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

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.

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

Land transport

ADR

Hazard class:	8
Packing group:	III
ID number:	UN 3267
Hazard label:	8, EHS
Proper shipping name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains TRIETHYLENETETRAMINE, BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

RID

Hazard class:	8
Packing group:	III

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ID number: UN 3267
 Hazard label: 8, EHS
 Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains TRIETHYLENETETRAMINE, BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Inland waterway transport

ADNR

Hazard class: 8
 Packing group: III
 ID number: UN 3267
 Hazard label: 8, EHS
 Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains TRIETHYLENETETRAMINE, BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Sea transport

IMDG

Hazard class: 8
 Packing group: III
 ID number: UN 3267
 Hazard label: 8, EHS
 Marine pollutant: YES
 Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains TRIETHYLENETETRAMINE, BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

Air transport

IATA/ICAO

Hazard class: 8
 Packing group: III
 ID number: UN 3267
 Hazard label: 8
 Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains TRIETHYLENETETRAMINE, BISPHENOL-A-EPICHLORHYDRIN RESINS M <=700)

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

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

Hazard symbol(s)
 C Corrosive.
 N Dangerous for the environment.

R-phrases(s)

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R21	Harmful in contact with skin.
R34	Causes burns.
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.
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: TRIETHYLENETETRAMINE,
BISPHENOL-A-EPICHLORHYDRIN RESINS M <=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 3:

C	Corrosive.
Xi	Irritant.
N	Dangerous for the environment.
21	Harmful in contact with skin.
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.
36/38	Irritating to eyes and skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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

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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.