

Safety data sheet

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BASF Safety data sheet
Date / Revised: 15.03.2010
Product: **MASTERFLOW 626 PART B**

Version: 2.0

(30362762/SDS_GEN_SG/EN)

Date of print 16.03.2010

1. Substance/preparation and company identification

MASTERFLOW 626 PART B

Use: Product for construction chemicals

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

Blend based on: polyamine, modified

Hazardous ingredients

| triethylenetetramine

Content (W/W): >= 15 % - <= 24 %

| CAS Number: 112-24-3

| EC-Number: 203-950-6

| INDEX-Number: 612-059-00-5

| Hazard symbol(s): C

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

| 3,6,9-triazaundecamethylene-1,11-diamine

Content (W/W): $\geq 10\%$ - $\leq 20\%$

CAS Number: 112-57-2

EC-Number: 203-986-2

INDEX-Number: 612-060-00-0

Hazard symbol(s): C, N

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

Causes burns.

May cause sensitization by skin contact.

Harmful 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. 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 extinguishing media, 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 and personal protection

Components with workplace control parameters

triethylenetetramine, 112-24-3;

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	
Colour:	amber	
Odour:	amine-like	
pH value:	approx. 11	
Flash point:	150 °C	(DIN 53213-1)
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Density:	approx. 1.00 g/cm ³ (20 °C)	
Relative density:	approx. 0.955 (25 °C)	
Viscosity, dynamic:	approx. 140 mPa.s (25 °C)	

10. Stability and Reactivity

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
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Substances to avoid:
oxidizable substances

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

11. Toxicological Information

Acute toxicity

| Information on: triethylenetetramine
Assessment of acute toxicity:
Of pronounced toxicity after short-term skin contact. Of low toxicity after single ingestion.

Irritation

| Information on: triethylenetetramine
Assessment of irritating effects:
Corrosive! Damages skin and eyes.

Sensitization

| Information on: triethylenetetramine
Assessment of sensitization:
Sensitization after skin contact possible.

12. Ecological Information

Ecotoxicity

| Information on: triethylenetetramine
Assessment of aquatic toxicity:
Acutely toxic for aquatic organisms.

| Information on: triethylenetetramine
Toxicity to fish:
| LC50 (96 h) 570 mg/l, *Poecilia reticulata* (Directive 84/449/EEC, C.1, semistatic)
The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

| Information on: triethylenetetramine
Assessment biodegradation and elimination (H₂O):
Not readily biodegradable (by OECD criteria). Poorly biodegradable.

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: 8
Packing group: III
ID number: UN 2735
Hazard label: 8
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (contains TRIETHYLENETETRAMINE, TETRAETHYLENEPENTAMINE)

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 TRIETHYLENETETRAMINE, TETRAETHYLENEPENTAMINE)

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 TRIETHYLENETETRAMINE, TETRAETHYLENEPENTAMINE)

15. Regulatory Information

Regulations of the European union (Labelling)

Directive 1999/45/EC ('Preparation Directive'):

Hazard symbol(s)	
C	Corrosive.
R-phrases(s)	
R34	Causes burns.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	
S1/2	Keep locked-up and out of reach of children.
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).
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

| Hazard determining component(s) for labelling: 3,6,9-TRIAZAUNDECAMETHYLENEDIAMINE

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.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

C	Corrosive.
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.
21/22	Harmful in contact with skin and if swallowed.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vertical lines in the left hand margin indicate an amendment from the previous version.

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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.