

Safety data sheet

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

Date / Revised: 28.09.2010

Version: 1.0

Product: **MASTERFLOW 816 CONCENTRATE**

(270485/SDS_GEN_EU/EN)

Date of print 11.10.2010

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

MASTERFLOW 816 CONCENTRATE

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)

Toxic if swallowed.

Causes burns.

3. Composition/Information on Ingredients

Chemical nature

Blend based on: active ingredient, fillers

Hazardous ingredients

according to Directive 1999/45/EC

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calcium oxide

Content (W/W): $\geq 25\%$ - $< 50\%$
CAS Number: 1305-78-8
EC-Number: 215-138-9
Hazard symbol(s): C
R-phrase(s): 34

sodium nitrite

Content (W/W): $\geq 2.5\%$ - $< 7\%$
CAS Number: 7632-00-0
EC-Number: 231-555-9
REACH registration number: 01-2119471836-27
INDEX-Number: 007-010-00-4
Hazard symbol(s): O, T, N
R-phrase(s): 8, 25, 50

Paraffin oils

Content (W/W): $\geq 1\%$ - $< 2.5\%$
CAS Number: 8012-95-1
EC-Number: 232-384-2
R-phrase(s): 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. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately inhale corticosteroid dose aerosol.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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 powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon dioxide, carbon monoxide, 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. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. 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. 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 suitable appliance and dispose of. Dispose of contaminated material as prescribed.

For large amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.

Avoid raising dust.

7. Handling and Storage

Handling

Avoid dust formation. Wear suitable protective clothing and eye/face protection. Avoid inhalation of dusts/mists/vapours. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Keep away from sources of ignition - No smoking. Dust can form an explosive mixture with air.

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Storage

Suitable materials for containers: paper

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.

Storage stability:

Storage temperature: 5 - 35 °C

The packed product is not damaged by low temperatures or by frost.

The packed product will not be damaged by high temperatures.

8. Exposure Controls/Personal Protection

Components with workplace control parameters

1305-78-8: calcium oxide

69012-64-2: Fumes, silica

7632-00-0: sodium nitrite

8012-95-1: Paraffin oils

80-51-3: 4,4'-Oxydi(benzenesulphonohydrazide)

7757-82-6: sodium sulphate

7440-44-0: carbon

1309-48-4: magnesium oxide

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Particle filter with high efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P3 or FFP3).

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 inhalation of dusts. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is required additionally to the stated personal protection equipment. 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:	powder
Colour:	dark grey
Odour:	characteristic
pH value:	> 12 (2 %(m), 25 °C)
Boiling point:	not applicable
Flash point:	> 100 °C
Flammability:	does not ignite
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Self ignition:	not self-igniting
Self heating ability:	It is not a substance capable of spontaneous heating.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	not applicable
Bulk density:	1,500 - 2,000 kg/m ³
Solubility in water:	insoluble
Miscibility with water:	immiscible
Hygroscopy:	hygroscopic
Viscosity, dynamic:	not applicable
Viscosity, kinematic:	not applicable

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Solids content: 100 %

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

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

Of high toxicity after single ingestion.

Irritation

Assessment of irritating effects:

Corrosive! Damages skin and eyes.

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

Additional information

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels. The product has not been tested. The statement has been derived from the properties of the individual components.

13. Disposal Considerations

Observe national and local legal requirements.

Residues should be disposed of in the same manner as the substance/product.

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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:	6.1
Packing group:	II
ID number:	UN 3290
Hazard label:	6.1, 8
Proper shipping name:	TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (contains CALCIUMOXIDE, SODIUM NITRITE)

RID

Hazard class:	6.1
Packing group:	II
ID number:	UN 3290
Hazard label:	6.1, 8
Proper shipping name:	TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (contains CALCIUMOXIDE, SODIUM NITRITE)

Inland waterway transport

ADNR

Hazard class:	6.1
Packing group:	II
ID number:	UN 3290
Hazard label:	6.1, 8
Proper shipping name:	TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (contains CALCIUMOXIDE, SODIUM NITRITE)

Sea transport

IMDG

Hazard class:	6.1
Packing group:	II
ID number:	UN 3290
Hazard label:	6.1, 8
Marine pollutant:	NO
Proper shipping name:	TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (contains CALCIUMOXIDE, SODIUM NITRITE)

Air transport

IATA/ICAO

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Packing group:	II
ID number:	UN 3290
Hazard label:	6.1, 8
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15. Regulatory Information

Regulations of the European union (Labelling) / National legislation/Regulations

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

Hazard symbol(s)	
T	Toxic.
R-phrases(s)	
R25	Toxic if swallowed.
R34	Causes burns.
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).

Hazard determining component(s) for labelling: CALCIUMOXIDE, SODIUM NITRITE

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 3:

C	Corrosive.
O	Oxidizing.
T	Toxic.
N	Dangerous for the environment.
34	Causes burns.
8	Contact with combustible material may cause fire.
25	Toxic if swallowed.
50	Very toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.

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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.