

Safety data sheet

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

Date / Revised: 10.08.2010

Version: 1.0

Product: **Masterflow 810**

(470814/SDS_GEN_EU/EN)

Date of print 15.09.2010

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

Masterflow 810

Company:

BASF South East Asia Pte Ltd.

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International emergency number:

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2. Hazards Identification

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

Irritating to respiratory system and skin.

Risk of serious damage to eyes.

May cause sensitization by skin contact.

3. Composition/Information on Ingredients

Chemical nature

Preparation based on: modified cement mortar

Hazardous ingredients

according to Directive 1999/45/EC

Cement, portland, contains > 2ppm Cr VI

Content (W/W): $\geq 40\%$ - $\leq 60\%$

CAS Number: 65997-15-1

EC-Number: 266-043-4

Hazard symbol(s): Xi

R-phrases(s): 37/38, 41, 43

Calcium oxide

Content (W/W): $\geq 1\%$ - $\leq 15\%$

CAS Number: 1305-78-8

EC-Number: 215-138-9

Hazard symbol(s): Xi

R-phrases(s): 38, 41

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. Remove contaminated clothing.

If inhaled:

After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain 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

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. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

No special precautions necessary.

Methods for cleaning up or taking up:

Sweep/shovel up.

7. Handling and Storage

Handling

Avoid dust formation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

No special precautions necessary.

Storage

Suitable materials for containers: paper

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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

65997-15-1: Cement, portland, chemicals

1305-78-8: calcium oxide

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. (Particle filter EN 143 P1)

Hand protection:

nitrile coated cotton gloves (e.g. EN 388, 374)

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., light protective clothing

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. 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:	powder
Colour:	dark brown
Odour:	characteristic
pH value:	> 12 (2 %(m), 25 °C)
Boiling point:	not applicable
Flash point:	> 100 °C
Flammability:	does not ignite
Self ignition:	not self-igniting
Self heating ability:	It is not a substance capable of spontaneous heating.
Fire promoting properties:	not fire-propagating
Bulk density:	1,800 - 2,400 kg/m ³ (20 °C)
Miscibility with water:	(20 °C) immiscible
Hygroscopy:	hygroscopic

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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.

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

Experimental/calculated data:
LD50 (oral): > 5,000 mg/kg
No systemic toxicity.

Irritation

Experimental/calculated data:
Skin corrosion/irritation: Irritant.

Serious eye damage/irritation: Irritant.

Respiratory/Skin sensitization

Assessment of sensitization:
May cause sensitization by skin contact.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.
The product gives rise to pH shifts.

Aquatic invertebrates:
LC50 (48 h) > 100 mg/l, *Daphnia magna* (static)

Aquatic plants:
EC50 (96 h) > 100 mg/l (growth rate), *Selenastrum capricornutum* (static)

Soil living organisms:
LC50 (10 d) 9,931 mg/kg, other soil dwelling arthropod

Persistence and degradability

Assessment biodegradation and elimination (H₂O):
Inorganic product which cannot be eliminated from water by biological purification processes. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

Elimination information:
not applicable

Bioaccumulation potential

Assessment bioaccumulation potential:
The product will not be readily bioavailable due to its consistency and insolubility in water.

Additional information

Other ecotoxicological advice:
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:
Completely emptied packagings can be given for recycling.

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADNR

Not classified as a dangerous good under transport 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:

Xi	Irritant.
37/38	Irritating to respiratory system and skin.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
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.