

Safety data sheet

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BASF Safety data sheet
Date / Revised: 17.02.2010
Product: **MASTERFLOW 870**

Version: 3.0

(30362770/SDS_GEN_SG/EN)

Date of print 13.03.2010

1. Substance/preparation and company identification

MASTERFLOW 870

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

modified cement mortar

Hazardous ingredients

EB auxiliary data; Template for tox/ecotox. data; Cement <2 ppm Cr VI
Content (W/W): >= 30 % - <= 70 %
CAS Number: 65997-15-1
EC-Number: 266-043-4
Hazard symbol(s): Xi
R-phrases: 37/38, 41

Aluminum calcium oxide sulfate (Al₂Ca₆O₆(SO₄)₃)

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Content (W/W): $\geq 0.5\%$ - $\leq 2.5\%$
Hazard symbol(s): Xi
R-phrase(s): 37/38

Calcium oxide (CaO)

Content (W/W): $\geq 0.5\%$ - $\leq 2.5\%$
CAS Number: 1305-78-8
EC-Number: 215-138-9
Hazard symbol(s): Xi
R-phrase(s): 38, 41

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

3. Hazard identification

Irritating to respiratory system and skin.
Risk of serious damage to eyes.

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: tin (tinplate)

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

Protect from temperatures below: 5 °C

Protect from temperatures above: 35 °C

8. Exposure controls and personal protection

Components with workplace control parameters

The substance mentioned is contained only in traces in the product.

Quartz (SiO₂), 14808-60-7;

TWA value 0.1 mg/m³ (OEL (SG)), Respirable dust

TWA value 0.025 mg/m³ (ACGIHTLV), Respirable fraction

Cement, portland, chemicals, 65997-15-1;

TWA value 10 mg/m³ (ACGIHTLV)
The value is for particulate matter containing no asbestos and <1% crystalline silica.
TWA value 10 mg/m³ (OEL (SG))

Personal protective equipment

Respiratory protection:

▮ Breathing protection if dusts are formed.

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:	grey
Odour:	odourless
pH value:	approx. 11 - 13 (water, approx. 20 °C) (as aqueous suspension)
Flammability:	not self-igniting
Explosion hazard:	not explosive
Bulk density:	approx. 1,800 - 2,400 kg/m ³
Solubility in water:	dispersible (15 °C)
Hygroscopy:	hygroscopic

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.

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

11. Toxicological Information

Acute toxicity

LD50 (oral): > 5,000 mg/kg
No systemic toxicity

Irritation

Primary skin irritation: Irritant.

Primary irritations of the mucous membrane: Risk of serious damage to eyes.

Sensitization

Assessment of sensitization:
Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

Carcinogenicity

Assessment of carcinogenicity:
The whole of the information available provides no indication of a carcinogenic effect.

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):

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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

Domestic transport:
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO
Not classified as a dangerous good under transport regulations

15. Regulatory Information

Regulations of the European union (Labelling)

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

Hazard symbol(s)	
Xi	Irritant.
R-phrases(s)	
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
S-phrases(s)	
S2	Keep out of the reach of children.
S22	Do not breathe dust.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28.1	After contact with skin, wash immediately with plenty of water and soap.
S27	Take off immediately all contaminated clothing.
S37/39	Wear suitable gloves and eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.

The product is classified and labelled in accordance with EC Directives.

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:

Xi	Irritant.
37/38	Irritating to respiratory system and skin.
41	Risk of serious damage 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.