

Safety data sheet

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

Date / Revised: 08.11.2010

Version: 1.0

Product: **EMACO S322M**

(ID no. 30507518/SDS_GEN_EU/EN)

Date of print 23.12.2010

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

Product identifier

EMACO S322M

Relevant identified uses of the substance or mixture and uses advised against

Details of the supplier of the safety data sheet

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 telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Label elements

According to Directive 67/548/EEC or 1999/45/EC

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

Hazard symbol(s)

Xi

Irritant.

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R-phrase(s)

R37/38 Irritating to respiratory system and skin.
 R41 Risk of serious damage to eyes.
 R43 May cause sensitization by skin contact.

S-phrase(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.

Classification of the substance or mixture

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Irritating to respiratory system and skin.
 Risk of serious damage to eyes.
 May cause sensitization by skin contact.

Other hazards**3. Composition/Information on Ingredients****Mixtures**Chemical nature

modified cement mortar

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

calcium oxide

Content (W/W): $\geq 1\%$ - $< 3\%$

CAS Number: 1305-78-8

EC-Number: 215-138-9

Skin corr./irr.: Cat. 1B

H314

Cement, portland, contains $> 2\text{ppm}$ Cr VI

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Content (W/W): $\geq 25\%$ - $< 50\%$

CAS Number: 65997-15-1

EC-Number: 266-043-4

Hazardous ingredients

according to Directive 1999/45/EC

Cement, portland, contains $> 2\text{ppm}$ Cr VI

Content (W/W): $\geq 25\%$ - $< 50\%$

CAS Number: 65997-15-1

EC-Number: 266-043-4

Hazard symbol(s): Xi

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

calcium oxide

Content (W/W): $\geq 1\%$ - $< 2.5\%$

CAS Number: 1305-78-8

EC-Number: 215-138-9

Hazard symbol(s): C

R-phrase(s): 34

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

4. First-Aid Measures

Description of first aid measures

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.

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

5. Fire-Fighting Measures

Extinguishing media

Special hazards arising from the substance or mixture**Advice for fire-fighters**

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, protective equipment and emergency procedures**

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 and material for containment and cleaning up

Sweep/shovel up.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage**Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: paper

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

8. Exposure Controls/Personal Protection**Control parameters**

Components with workplace control parameters

14808-60-7: Quartz (SiO₂)

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65997-15-1: Cement, portland, chemicals

1305-78-8: calcium oxide

Exposure controls

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

Information on basic physical and chemical properties

Form: powder
 Colour: dark grey
 Odour: characteristic
 pH value: > 12
 (2 %(m), 25 °C)

:
 not applicable
 Flash point: > 100 °C
 Flammability: does not ignite
 Vapour pressure:
 not applicable
 Self ignition: not self-igniting

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic:
 (23 °C)
 not applicable

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Other information

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Self heating ability: It is not a substance capable of spontaneous heating.

Bulk density: 1,500 - 2,000 kg/m³

1,800 - 2,400 kg/m³

Miscibility with water:

not (e.g. <10%)

Hygroscopy: hygroscopic

Solids content: 100 %

10. Stability and Reactivity

Reactivity

Corrosion to metals: No corrosive effect on metal.

Chemical stability

Possibility of hazardous reactions

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

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

Hazardous decomposition products

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

The product has not been tested. The statement has been derived from products of a similar structure or composition.

Experimental/calculated data:

LD50 (oral): > 5,000 mg/kg

No systemic toxicity.

Irritation

Assessment of irritating effects:

The product has not been tested. The statement has been derived from products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation: Irritant.

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Serious eye damage/irritation: Irritant.

Respiratory/Skin sensitization

Assessment of sensitization:

May cause sensitization by skin contact.

Germ cell mutagenicity

Assessment of mutagenicity:

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.

12. Ecological Information

Toxicity

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

Bioaccumulative potential

Assessment bioaccumulation potential:

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

Mobility in soil (and other compartments if available)

Results of PBT and vPvB assessment

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

Waste treatment methods

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

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

Safety, health and environmental regulations/legislation specific for the substance or mixture

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.
C	Corrosive.
37/38	Irritating to respiratory system and skin.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
34	Causes burns.
H314	Causes severe skin burns and eye damage.

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.