

Safety data sheet

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BASF Safety data sheet

Date / Revised: 01.06.2009

Product: **EMACO NANOCRETE R4**

Version: 1.0

(30451205/SDS_GEN_SG/EN)

Date of print 11.04.2010

1. Substance/preparation and company identification

EMACO NANOCRETE R4

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

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Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Composition/information on ingredients

Chemical nature

modified cement mortar

Hazardous ingredients

Cement, portland (Cr < 2 ppm)

Content (W/W): >= 30 % - <= 40 %

CAS Number: 65997-15-1

EC-Number: 266-043-4

Hazard symbol(s): Xi

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

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Calcium dihydroxide

Content (W/W): $\geq 2\%$ - $\leq 5\%$

CAS Number: 1305-62-0

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

3. Hazard identification

Irritant.

Irritating to eyes 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:

If difficulties occur after dust 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:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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 monoxide, carbon dioxide, harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

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. 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:

Avoid dust formation. Use personal protective clothing. Avoid contact with the skin, eyes and 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.

For large amounts: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal.

For residues: Rinse with plenty of water.

Avoid raising dust.

7. Handling and storage

Handling

Avoid dust formation. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment.

Storage

Segregate from metals. Segregate from acids. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

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.

8. Exposure controls and personal protection

Components with workplace control parameters

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:

Wear respiratory protection if ventilation is inadequate. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

impermeable gloves

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (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:

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:	characteristic	
pH value:	approx. 12 (approx. 20 °C)	
Melting temperature:	not applicable	
boiling temperature:	not applicable	
Flash point:	not applicable	
Ignition temperature:	not applicable	
Self ignition:		not self-igniting
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Density:	(20 °C) not available	
Bulk density:	approx. 1,200 kg/m ³	

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Solubility in water: miscible
Solubility (quantitative) :
insoluble

10. Stability and reactivity

Conditions to avoid:

Avoid humidity.

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

Substances to avoid:

strong oxidizing agents, strong bases, strong acids

Hazardous reactions:

Addition of water leads to increase in temperature.

11. Toxicological information

Acute toxicity

LD50 rabbit (dermal): 2,000 mg/kg
No mortality was observed.

Other relevant toxicity information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. 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:

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.

14. Transport information

Domestic transport:

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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.