

Safety data sheet

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BASF Safety data sheet

Date / Revised: 18.10.2011

Product: **EMACO NANOCRETE R4(MCI)**

Version: 1.0

(30546121/SDS_GEN_AU/EN)

Date of print 19.10.2011

1. Substance/preparation and company identification

EMACO NANOCRETE R4(MCI)

Company:

BASF Australia Limited (ABN 62 008 437 867)

Level 12, 28 Freshwater Place Southbank

Victoria 3006, AUSTRALIA

Telephone: +61 3 8855-6600

Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]

BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

Irritating to respiratory system and skin.

Risk of serious damage to eyes.

Keep out of the reach of children.

Do not breathe dust.

Avoid contact with skin and eyes.

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

After contact with skin, wash immediately with plenty of water and soap.

Take off immediately all contaminated clothing.

Wear suitable gloves and eye/face protection.

If swallowed, seek medical advice immediately and show this container or label.

3. Composition/information on ingredients

Chemical nature

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Preparation based on: modified cement mortar

Hazardous ingredients

PORTLAND CEMENT, ASTM C-150 TYPE I
Content (W/W): $\geq 25\%$ - $< 50\%$
CAS Number: 65997-15-1

Calcium dihydroxide
Content (W/W): $\geq 2.5\%$ - $< 5\%$
CAS Number: 1305-62-0

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

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.

Note to physician:

Symptoms: Eye irritation, skin irritation, irritation of the mucous membranes

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Additional information:

Product itself is non-combustible. Only the packaging materials can catch fire. The generally usual extinguishing agents to esteem for sufficient.

Specific hazards:

Product is not combustible or explosive. No particular hazards known.

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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 - 55 °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 and personal protection

Components with workplace control parameters

PORTLAND CEMENT, ASTM C-150 TYPE I, 65997-15-1;

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TWA value 10 mg/m³ (OEL (AU)), Inhalable dust
TWA value 1 mg/m³ (ACGIHTLV), Respirable fraction
The value is for particulate matter containing no asbestos and <1% crystalline silica.

Calcium dihydroxide, 1305-62-0;
TWA value 5 mg/m³ (OEL (AU))

Fumes, silica, 69012-64-2;
TWA value 2 mg/m³ (OEL (AU)), Respirable fraction

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:	light grey
Odour:	characteristic
pH value:	>= 11 (20 °C)
Boiling point:	not applicable
Flash point:	not applicable
Flammability:	does not ignite
Lower explosion limit:	not applicable

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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: (20 °C)
not applicable
Density: 2.24 g/cm³
(20 °C)
Bulk density: 1,000 - 1,800 kg/m³
(20 °C)
not applicable
Solubility in water: insoluble
Miscibility with water: (20 °C)
not (e.g. <10%)
Hygroscopy: Non-hygroscopic
Viscosity, dynamic: not applicable
Solids content: 100 %

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

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 bases, strong acids

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

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

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. The inhalation of dusts represents a potential acute hazard.

Irritation

Assessment of irritating effects:

Causes temporary irritation of the respiratory tract. Skin contact causes irritation. May cause severe damage to the eyes. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Sensitization

Assessment of sensitization:

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

Repeated dose toxicity

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation. The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity

Assessment of mutagenicity:

The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Developmental toxicity

Assessment of teratogenicity:

The chemical structure does not suggest such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

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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 statements on toxicology have been derived from products of a similar structure and composition.

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.

Mobility

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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.

Experience shows this product to be inert and non-degradable.

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.
