

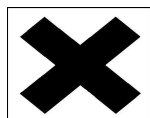
Material Safety Data Sheet

According to 2001/58/EC

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EMACO NANOCRETE R4



Irritant

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name	EMACO® NANOCRETE R4
Recommended use	Repair mortar
Manufacturer / Distributor	Degussa Construction Chemicals Belgium NV Industrieterrein Ravenshout 3711, Nijverheidsweg 89, B-3945 Ham, Belgium Tel : +32 11 34 04 10 - Fax : +32 11 40 29 33 E-mail : mbt.be@degussa.com - Website: www.degussa-cc.be
Emergency information	Belgium: Tel: +32 11 34 04 10 The Netherlands: Tel: +31 162 47 66 60

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characteristics	Modified sand - cement mixture
Hazardous components	
Portland cement (Cr-VI < or = 2 ppm)	Conc: 30 - 40 % - EINECS: 266-043-4 - CAS: 65997-15-1 - Xi - R36/37/38, R41
Calcium hydroxide	Conc: 2 - 5 % - EINECS: 215-137-3 - CAS: 1305-62-0 - Xi - R41

3. HAZARDS IDENTIFICATION

Risks	R36/37/38 - Irritating to eyes, respiratory system and skin. R41 - Risk of serious damage to eyes.
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4. FIRST AID MEASURES

Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Skin contact	Wash off immediately with plenty of water. Get medical attention if irritation persists. Remove and wash contaminated clothes.
Inhalation	Remove affected person to fresh air. In case of breathing difficulty or distress, get medical attention.
Ingestion	Consult a physician. Point out the high alkalinity of cement.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	not applicable
Extinguishing media which must not be used for safety reasons	None known
Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	None known
Protective equipment	Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Provide adequate ventilation. Wear suitable protective clothing and dust mask.
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Environmental precautions	Do not discharge into drains and sewers because of high alkalinity.
Methods for cleaning up	Collect in a container and re-use. Soak up with sand or other suitable material and dispose as per 13.

7. HANDLING AND STORAGE

Handling	Avoid dust formation. Avoid spilling, skin and eye contact. Observe industrial safety and hygiene practice.
Storage	Keep packaging tightly closed. Store in a cool, dry place. Protect against frost.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits values	TLV-TWA: 10 mg/m ³ OES-LTEL: 4 R / 10 I mg/m ³ MAK : 5 E mg/m ³ MAC-TGG 8 h : 10 mg/m ³ GWBB - 8 h : 10 mg/m ³
Exposure controls :	
Occupational exposure controls	Provide adequate ventilation or air evacuation at workplace.
Environmental exposure controls	See chapter 13.
Personal protection :	
Respiratory protection	dust mask (filter St)
Hand protection	rubber gloves
Eye protection	goggles or face shield
Skin and body protection	apron or light protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	powder
Colour	grey
Odour	not determined
Density	not applicable
Bulk density	not applicable
pH	> 12 at 20 °C
Flash point	not applicable
Autoignition temperature	not applicable
Vapour pressure	not applicable
Water solubility	insoluble
Viscosity	not applicable
Explosion limits :	
- upper	not applicable
- lower	not applicable
Decomposition temperature	not applicable
Boiling point/range	not applicable
Other data	low Chromate - Cr-VI < 2 ppm

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Mixing with water results in an alkaline suspension. Simultaneous hardening with emission of hydration heat occurs.

10. STABILITY AND REACTIVITY

Conditions to avoid

wet and humid areas.

Materials to avoid

Incompatible with acids and bases.

Hazardous decomposition products

water, moisture

None, under application conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity :

LD50 oral rat

not determined

LD50 dermal rat

not determined

LD50 dermal rabbit

not determined

LC50 inhalation rat

not determined

Acute effects/symptoms :

Cement and mortar dust irritate eyes and, by prolonged contact, the skin. Mixing with water results in an alkaline suspension that has an irritant effect on eyes and skin.

After eye contact

Irritating to eyes.

After skin contact

Irritating to skin.

After inhalation

Coughing

After ingestion

Irritating to respiratory system.

Irritating to mucous membranes

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Chronic effects

May cause sensitisation by inhalation and skin contact.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Do not discharge into drains and sewers because of high alkalinity. Due to its alkalinity, this product is harmful to fish and other aquatic life forms.

13. DISPOSAL CONSIDERATIONS

Product

Re-use where possible. Dispose according to local regulations for construction materials.

Packaging

Dispose according to local regulations.

14. TRANSPORT INFORMATION

General

This product is not classified as dangerous in the meaning of transport regulations.

Road transport - ADR

Railway transport - RID

Sea transport - IMDG

Air transport - ICAO/IATA

15. REGULATORY INFORMATION

Labelling

Xi - Irritant

R-phrases)

R37/38 - Irritating to respiratory system and skin.

R41 - Risk of serious damage to eyes.

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S-phrases(s)

S22 - Do not breathe dust.

S 2 - Keep out of reach of children.

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.

S36/37/39 - Wear suitable protective clothing, gloves, and eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Further information

None

Relevant changes

02 - Hazardous components

R-phrases of components

R36/37/38 - Irritating to eyes, respiratory system and skin.

R41 - Risk of serious damage to eyes.

Important Note

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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