



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

## Nanocrete R4 Fluid Safety Data Sheet

### Safety Data Sheet

Product: **Nanocrete R4 Fluid**

Supplier:

**Arcon Construction Supplies**

**19-20 Prestwood Court**

**Leacroft Road**

**Warrington**

**WA3 6SB**

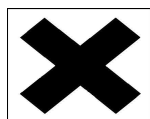
Tel: **01925 852225**

Email: [mail@arconsupplies.co.uk](mailto:mail@arconsupplies.co.uk)

Web: [www.arconsupplies.co.uk](http://www.arconsupplies.co.uk)

Call **01925 852225** or visit [Arcon Construction Supplies](http://www.arconconstruction.com)  
... for more information on our flooring and construction products

[Industrial Flooring](#) | [Concrete Repairs](#) | [Protective and Waterproof Coatings](#)  
[Jointing and Paving Mortars](#) | [Anti-slip Floor Paints](#) | [Concrete Repair Mortars](#)

**EMACO NANOCRETE R4 FLUID**

Irritant

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

Product Name	EMACO® NANOCRETE R4 FLUID
Recommended use	Repair mortar
Manufacturer / Distributor	BASF 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 : <a href="mailto:mbt.be@basf.com">mbt.be@basf.com</a> - Website: <a href="http://www.basf-cc.be">www.basf-cc.be</a>
Emergency information	Belgium: Tel: +32 11 34 04 10 The Netherlands: Tel: +31 162 47 66 60

**2. HAZARDS IDENTIFICATION**

Risks	R37/38 - Irritating to respiratory system and skin. R41 - Risk of serious damage to eyes.
-------	--

**3. 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 - R37/38, R41
Calcium hydroxide	Conc: 1 - 3 % - EINECS: 215-137-3 - CAS: 1305-62-0 - Xi - R37, R38, R41
Calcium formate	Conc: 0,1 - 0,5 % - EINECS: 208-863-7 - CAS: 544-17-2 - Xi - R36

**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.
----------------------	--

---

**EMACO NANOCRETE R4 FLUID**

---

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

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

&gt; 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 &lt; 2 ppm

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.

Incompatible with acids and bases.

---

**EMACO NANOCRETE R4 FLUID**

---

Materials to avoid

water, moisture

Hazardous decomposition products

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

Irritating to respiratory system.

After ingestion

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.

S-phrases)

S 2 - Keep out of 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.

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

---

**EMACO NANOCRETE R4 FLUID**

---

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

**16. OTHER INFORMATION**

Further information

None

Relevant changes

R-phrases of components

R36 - Irritating to eyes.

R37 - Irritating to respiratory system.

R37/38 - Irritating to respiratory system and skin.

R38 - Irritating to 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.

---

BASF Construction Chemicals Belgium NV  
Industriepark Ravenshout 3711  
Nijverheidsweg 89, 3945 Ham, Belgium  
Tel +32 11 34 04 10 - Fax +32 11 40 29 33  
mbt.be@basf.com  
www.basf-cc.be

---

BASF Construction Chemicals Nederland bv  
Karolusstraat 2  
Postbus 132, 4900 AC Oosterhout (NB), The Netherlands  
Tel +31 162 47 66 60 - Fax +31 162 42 96 94  
mbt.nl@basf.com  
www.basf-cc.nl

---