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**1 Identification of substance**

- **Product details**
- **Trade name** NANOFUG
- **Revision number of MSDS:** 501/000
- **Application of the substance / the preparation** Sealing mortar
- **Manufacturer/Supplier:** BASF Construction Chemicals (UK) Ltd  
Albany House, Swinton Hall Road, Swinton, Manchester, M27 4DT
- **Informing department:** EHSQ-environment department.
- **Emergency information:**  
EMERGENCY CALL      Tel: 0161 794 7411      Fax: 0161 727 8547

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**2 Composition/Data on components:**

- **Description:**  
Mixture of the substances listed below with non-dangerous additives.  
Dry mortar-mixture with elastifying plastics
- **Dangerous components:**  
CAS: 65997-15-1      Cement, portland, chemicals      25-50%  
EINECS: 266-043-4 Xi; R 38-41

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**3 Hazards identification**

- **Hazard designation:** Xi Irritant
- **Information pertaining to particular dangers for man and environment**  
R 38 Irritating to skin.  
R 41 Risk of serious damage to eyes.
- **Classification system**  
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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**4 First aid measures**

- **General information**  
This product contains cement. Cement produces an alkaline reaction with moisture or gauging water and therefore splashes of mortar, slurry or gauging water may cause skin irritation and/or caustic burns to mucous membranes (e.g. eyes). Avoid contact with eyes and prolonged skin contact
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**  
Immediately wipe off substance and wash with plenty of soap and water.
- **After eye contact**  
Rinse eyes for at least 15 minutes under running water with eyelids held open. Immediately consult a doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
In case of persistent symptoms consult doctor.

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**5 Fire fighting measures**

- **Suitable extinguishing agents**  
Product is non-combustible, therefore no special extinguishing agents.
- **Protective equipment:** No special measures required.

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**6 Accidental release measures**

- **Person-related safety precautions:** Avoid causing dust.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Collect mechanically.

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**7 Handling and storage**

- **Handling**
- **Information for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:**  
No special measures required.

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 10.01.2007

Reviewed on 10.01.2007

Trade name NANOFUG

(Contd. of page 1)

- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in dry place.  
Avoid (where possible) or reduce dust formation.

**8 Exposure controls and personal protection**

- **Additional information about design of technical systems:**  
No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**  
**1332-58-7 Aluminiumsilikathydrat (Kaolinit)**  
WEL Long-term value: 2 mg/m<sup>3</sup>
- | CAS No. | Designation of material      | %                   | Type       | Value | Unit |
|---------|------------------------------|---------------------|------------|-------|------|
|         | Lower toxic limit for cement | 5 mg/m <sup>3</sup> | total dust |       |      |
|         | General dust limit value     | 6 mg/m <sup>3</sup> |            |       |      |

Otherwise the product contains no relevant quantities of substances with workplace-related limit values.
- **Additional information:**  
The lists that were valid during the compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures when handling chemicals should be adhered to.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.  
Use protection cream for skin protection.
- **Breathing equipment:** Not required.
- **Protection of hands:**
- **Material of gloves** Nitrile impregnated cotton-gloves
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
Wear safety goggles when working above eye level or if there is danger of splashing.

**9 Physical and chemical properties:**

- **General Information**

Form:	Powder
Colour:	According to product specification
Smell:	Odourless
- **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not applicable
- **Flash point:** Not applicable
- **Self-inflammability:** Product is not self-igniting.
- **Danger of explosion:** Product is not explosive.
- **Solubility in / Miscibility with**

Water at 20°C:	< 2 g/l
pH-value at 20°C:	12 - 13
- **Solids content:** 100.0 %

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** No dangerous decomposition products known

(Contd. on page 3)

GB

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 10.01.2007

Reviewed on 10.01.2007

Trade name NANOFUG

(Contd. of page 2)

**11 Toxicological information**

- **Acute toxicity:**
- **Primary irritant effect:**
  - **on the skin:** Irritant for skin and mucous membranes.
  - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:**

Product is reduced in chromate. Within the indicated storage time sensitization is not expected.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

When used and handled according to specifications, the product does not have any harmful effects in our experience and according to the information provided to us. The product does not contain asbestos (or any other mineral fibres) or inhalable fine quartz dust hazardous to health and causing silicosis. The product is chlorine-free and contains no formaldehyde.

Low in chromates to TRGS 613

**12 Ecological information:**

- **General notes:**

Do not allow product to reach ground water, water bodies or sewage system. No ecological studies are available. Harmful effects on man and environment are hitherto unknown and are not to be expected when application is in accordance with the instructions and the advice in this Safety Data Sheet. When handled properly and used as intended the product has no ecotoxic effects on the basis of our significant experience in ready-to-use cement mortars and chemical building materials and the information available to us.

**13 Disposal considerations**

- **Product:**
- **Recommendation**

Disposal in accordance with national and local laws and bye-laws. Smaller quantities can be disposed of with household waste.
- **European waste catalogue**

01 04 07 wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals
- **Uncleaned packagings:**
- **Recommendation:**

Carefully and completely emptied packs can be disposed of as building site or commercial waste.

**14 Transport information**

Not dangerous to transport regardless of method.

**15 Regulatory information**

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- **Code letter and hazard designation of product:** Xi Irritant
- **Hazard-determining components of labelling:** Cement
- **Risk phrases:**
  - 38 Irritating to skin.
  - 41 Risk of serious damage to eyes.

(Contd. on page 4)

GB

**Material Safety Data Sheet**  
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(Contd. of page 3)

**· Safety phrases:**

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
- 37/39 Wear suitable gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.

**· National regulations**

- Other regulations, limitations and prohibitive regulations** Giscode: ZP 1
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**16 Other information:**

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant R-phrases**

- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.

**· PCI-product information nr: 246****· Department issuing data specification sheet:** EHSQ-environmental department**· Contact:** Mr. Lüttil -369 (Mrs. Pohl -435, Mrs. Hagner -525)

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