



## SAFETY DATA SHEET NITOFLOR HARDTOP

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** NITOFLOR HARDTOP  
**Product number** 1853220, 1853081, 1853102, 1853140, 1853210

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Cementitious Floor Hardener

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Fosroc Sdn. Bhd.  
 8, Jalan Trompet 33/8,  
 Section 33, 40400, Shah Alam,  
 Selangor Darul Ehsan,  
 Malaysia.  
 +603-51025660  
 +603-51025668  
 enquiry@fosroc.com

#### 1.4. Emergency telephone number

**Emergency telephone** +60351025660

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335  
**Environmental hazards** Not Classified

**Human health** Dust or splashes from the mixture may cause permanent eye damage. Dust may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Dust has an irritating effect on moist skin. Prolonged contact with moist or wet product may cause burns. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

**Environmental** The product will harden into a solid mass in contact with water and moisture. The resultant material is not biodegradable.

#### 2.2. Label elements

##### Pictogram



**Signal word** Danger

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<b>Hazard statements</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.
<b>Precautionary statements</b>	P261 Avoid breathing dust. P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Contains</b>	Cement
<b>Supplementary precautionary statements</b>	P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P310 Immediately call a POISON CENTER/ doctor. P312 Call a POISON CENTRE/doctor if you feel unwell. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Cement</b>	<b>30-60%</b>
CAS number: 65997-15-1	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
<b>SILICA SAND</b>	<b>30-60%</b>
CAS number: 14808-60-7                      EC number: 238-878-4	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified	-

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Keep affected person under observation. Get medical attention if any discomfort continues.
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<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Skin contact</b>	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Do not rub eye. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	May cause respiratory irritation.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye damage.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
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### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	No known hazardous decomposition products.
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### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
<b>Special protective equipment for firefighters</b>	Use protective equipment appropriate for surrounding materials.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with local regulations.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For waste disposal, see Section 13.
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## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

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**Usage precautions** Avoid contact with skin and eyes. Avoid generation and spreading of dust. Avoid inhalation of dust.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry and cool place. Seal opened containers and use up as soon as possible To be stored out of reach of children in its original packaging in a dry place.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **Cement**

Long-term exposure limit (8-hour TWA): WEL 2.0 mg/m<sup>3</sup> total inhalable dust

Long-term exposure limit (8-hour TWA): WEL 1.0 mg/m<sup>3</sup> respirable dust

##### **SILICA SAND**

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m<sup>3</sup> Respirable crystalline silica

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

#### **Protective equipment**



#### **Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Eye wash facilities and emergency shower must be available when handling this product.

#### **Personal protection**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### **Eye/face protection**

The following protection should be worn: Chemical splash goggles or face shield.

#### **Hand protection**

Wear protective gloves made of the following material: Nitrile rubber.

#### **Other skin and body protection**

Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### **Hygiene measures**

Good personal hygiene procedures should be implemented. Use appropriate skin cream to prevent drying of skin. Wash contaminated skin thoroughly after handling. Wash after use and before eating, smoking and using the toilet.

#### **Respiratory protection**

Wear a respirator fitted with the following cartridge: Particulate filter, type P2.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Granulated Powder
<b>Colour</b>	Various colours.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	Not relevant.
<b>pH</b>	pH (concentrated solution): >12

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<b>Melting point</b>	>1250°C
<b>Initial boiling point and range</b>	Not available.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	The product is not flammable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Bulk density</b>	2.0 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Slightly soluble in water. Hardens in contact with water.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	No
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

### 9.2. Other information

**Other information** Not available.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

**Reactivity** When mixed with water, hardens to form a stable mass that is not reactive in normal conditions.

### 10.2. Chemical stability

**Stability** Stable when stored in a dry place. Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid** Water, moisture.

### 10.5. Incompatible materials

**Materials to avoid** Acids. Chemically-active metals.

### 10.6. Hazardous decomposition products

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**Hazardous decomposition products** No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Inhalation** May cause respiratory irritation.  
**Skin contact** May cause skin irritation. May cause an allergic skin reaction.  
**Eye contact** Causes serious eye damage.

#### Toxicological information on ingredients.

##### SODIUM SALT OF SULPHONATED NAPHTHALENE FORMALDEHYDE (SNFC)

###### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 3,400.0  
**Species** Rat  
**ATE oral (mg/kg)** 3,400.0

##### SODIUM SULFATE

###### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,989.0  
**Species** Rat  
**ATE oral (mg/kg)** 5,989.0

###### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 1,220.0  
**Species** Rabbit  
**ATE inhalation (dusts/mists mg/l)** 1,220.0

### SECTION 12: Ecological Information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

#### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is not biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

#### 12.4. Mobility in soil

**Mobility** The product hardens to a solid, immobile substance.

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### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Note that fully cured material is not considered as hazardous waste.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (CLASS Regulations)

**Guidance** The Industry Code of Practise on Chemical Classification and Hazard Communication 2013 (ICOP)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

## NITOFLOR HARDTOP

<b>General information</b>	For professional users only. Only trained personnel should use this material.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	08/06/2018
<b>Revision</b>	7
<b>Supersedes date</b>	09/05/2015
<b>SDS number</b>	21910
<b>Hazard statements in full</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.