# SAFETY DATA SHEET
# NITOPRIME 88

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

### 1.1. Product identifier

**Product name** NITOPRIME 88

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

**Identified uses** Adherence primer between old and new concrete

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

**Supplier**

Fosroc Idea Yapi Kimyasallari San. Ve Tic. A.S.
Aydinevler mah. Sanayi cad. Demirtas Plaza No:13 Kat:3 34854
Maltepe ISTANBUL
TURKEY
+90 216 463 6776
enquiryturkey@fosroc.com

### 1.4. Emergency telephone number

**Emergency telephone** +90 262 728 15 07

**National emergency telephone number**

Turkey:
Ulusal Zehir Danışma Merkezi (UZEM) :114
Acil Sağlık Hizmetleri : 112

## 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

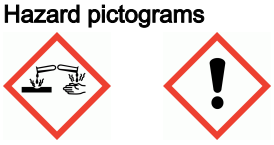
**Environmental hazards** Not Classified

**Human health** See Section 11 for additional information on health hazards.

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

### 2.2. Label elements

**Hazard pictograms**



**Signal word** Danger

**Hazard statements**

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

# NITOPRIME 88

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

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**ORDINARY PORTLAND CEMENT** **30-60%**

CAS number: 65997-15-1 EC number: 266-043-4

**Classification**
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Skin Sens. 1 - H317
STOT SE 3 - H335

**SODIUM NITRITE** **1-5%**

CAS number: 7632-00-0 EC number: 231-555-9

**Classification**
Ox. Sol. 3 - H272
Acute Tox. 3 - H301

**Classification (67/548/EEC or 1999/45/EC)**
O;R8 T;R25 N;R50

**CALCIUM OXIDE** **<1%**

CAS number: 1305-78-8 EC number: 215-138-9

**Classification**
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
STOT SE 3 - H335

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|---|---|---|
| **FORMALDEHYDE** | | **<1%** |
| CAS number: 50-00-0 | EC number: 200-001-8 | REACH registration number: 01-2119488953-20 |

**Classification**
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Muta. 2 - H341
Carc. 1B - H350
STOT SE 3 - H335

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

**General information** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Inhalation** Keep affected person under observation. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Keep affected person under observation. Get medical attention if any discomfort continues.

**Skin contact** Remove affected person from source of contamination.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** May cause respiratory irritation.

**Ingestion** May cause irritation of mouth, throat and digestive tract.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye damage.

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

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

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

### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

## SECTION 6: Accidental release measures

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

**Personal precautions** For personal protection, see Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Collect and place in suitable waste disposal containers and seal securely.

### 6.4. Reference to other sections

**Reference to other sections** Collect and dispose of spillage as indicated in Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Good personal hygiene procedures should be implemented. Avoid inhalation of dust and contact with skin and eyes.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from moisture.

**Storage class** Chemical storage.

### 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**

**ORDINARY PORTLAND CEMENT**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

**SODIUM NITRITE**

Short-term exposure limit (15-minute): WEL 0.5 mg/m3 total dust

**CALCIUM OXIDE**

Long-term exposure limit (8-hour TWA): WEL 2 mg/m³

**FORMALDEHYDE**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m³
Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m³
WEL = Workplace Exposure Limit.

**ORDINARY PORTLAND CEMENT (CAS: 65997-15-1)**

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|---|---|
| **DNEL** | Workers - Inhalation; Short term : 3 mg/m³ |

**CALCIUM OXIDE (CAS: 1305-78-8)**

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|---|---|
| **DNEL** | Workers - Inhalation; Long term local effects: 1 mg/m³<br>Workers - Inhalation; Short term local effects: 4 mg/m³ |
| **PNEC** | - Fresh water; 0.37 mg/l<br>- marine water; 0.24 mg/l |

**FORMALDEHYDE (CAS: 50-00-0)**

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|---|---|
| **DNEL** | Workers - Inhalation; Long term systemic effects: 9 mg/m³<br>Workers - Inhalation; Long term local effects: 0,5 mg/m³<br>Workers - Inhalation; Short term local effects: 1 mg/m³<br>Workers - Dermal; Long term systemic effects: 240 mg/kg/day<br>Workers - Dermal; Long term local effects: 37 µg/cm2 |
| **PNEC** | - Fresh water, marine water; 0.47 mg/l<br>- STP; 0.19 mg/l<br>Water, Intermittent release; 4,7 mg/l<br>Sediment (Freshwater), Sediment (Marinewater); 2,44 mg/kg<br>Soil; 0,21 mg/kg |

## 8.2. Exposure controls

**Protective equipment**

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| **Appropriate engineering controls** | Ensure control measures are regularly inspected and maintained. |
| **Eye/face protection** | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Wear tight-fitting, chemical splash goggles or face shield. |
| **Hand protection** | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Polyvinyl chloride (PVC). Nitrile rubber. |
| **Other skin and body protection** | Avoid contact with skin. Wear apron or protective clothing in case of contact. |
| **Hygiene measures** | When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. |
| **Respiratory protection** | Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. |

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## SECTION 9: Physical and chemical properties

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

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| **Appearance** | Powder. |
| **Colour** | Grey. |
| **Odour** | Odourless. |
| **Odour threshold** | Not determined. |
| **pH** | > 12 |
| **Melting point** | ~ 1250°C |
| **Initial boiling point and range** | Not determined. |
| **Flash point** | Not determined. |
| **Evaporation rate** | Not determined. |
| **Evaporation factor** | Not determined. |
| **Flammability (solid, gas)** | Not applicable. |
| **Upper/lower flammability or explosive limits** | Not applicable. |
| **Other flammability** | Not applicable. |
| **Vapour pressure** | Not determined. |
| **Vapour density** | Not determined. |
| **Relative density** | 1.3 @ 27°C |
| **Bulk density** | Not applicable. |
| **Solubility(ies)** | Slightly soluble in water. |
| **Partition coefficient** | Not applicable. |
| **Auto-ignition temperature** | Not applicable. |
| **Explosive properties** | Not considered to be explosive. |
| **Oxidising properties** | Does not meet the criteria for classification as oxidising. |

### 9.2. Other information

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|---|---|
| **Other information** | Not available. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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| **Reactivity** | There are no known reactivity hazards associated with this product. Does not decompose when used and stored as recommended. |

### 10.2. Chemical stability

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| **Stability** | Stable at normal ambient temperatures and when used as recommended. |

### 10.3. Possibility of hazardous reactions

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| **Possibility of hazardous reactions** | Water-reactive materials. |

### 10.4. Conditions to avoid

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| **Conditions to avoid** | The product will harden into a solid mass in contact with water and moisture. |

### 10.5. Incompatible materials

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| **Materials to avoid** | Strong acids. |

### 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

**Acute toxicity - oral**

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| **ATE oral (mg/kg)** | 6,666.67 |

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| **General information** | Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations. |
| **Inhalation** | May cause respiratory irritation. |
| **Ingestion** | May cause irritation of mouth, throat and digestive tract. |
| **Skin contact** | Causes skin irritation. |
| **Eye contact** | Causes serious eye damage. |
| **Acute and chronic health hazards** | Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight. |
| **Route of exposure** | Inhalation Ingestion Skin and/or eye contact |
| **Target organs** | Eyes Skin Respiratory tract |

**Toxicological information on ingredients.**

**ORDINARY PORTLAND CEMENT**

**Acute toxicity - dermal**

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| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 2,000.0 |
| **Species** | Rabbit |

**FORMALDEHYDE**

**Acute toxicity - oral**

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|---|---|
| **Notes (oral $LD_{50}$)** | $LD_{50}$ > 200 mg/kg, Oral, Rat |
| **ATE oral (mg/kg)** | 100.0 |

**Acute toxicity - dermal**

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|---|---|
| **Notes (dermal $LD_{50}$)** | $LD_{50}$ 270 mg/kg, Dermal, Rabbit |
| **ATE dermal (mg/kg)** | 300.0 |

**Acute toxicity - inhalation**

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| **Notes (inhalation $LC_{50}$)** | CL50 0,58 mg/l, 4 hours, Gas. Rat |

**Carcinogenicity**

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| **IARC carcinogenicity** | IARC Group 1 Carcinogenic to humans. |
| **Inhalation** | Prolonged inhalation of high concentrations may damage respiratory system. May cause respiratory system irritation. |
| **Ingestion** | Toxic if swallowed. |
| **Skin contact** | Corrosive to skin. May cause sensitisation or allergic reactions in sensitive individuals. |
| **Eye contact** | Causes serious eye damage. |

## SECTION 12: Ecological information

**Ecotoxicity** The product components are not classified as environmentally hazardous.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

**Ecological information on ingredients.**

**ORDINARY PORTLAND CEMENT**

**Acute aquatic toxicity**

**Acute toxicity - fish** Not determined.

**FORMALDEHYDE**

**Acute aquatic toxicity**

| | |
|---|---|
| **Acute toxicity - fish** | $LC_{50}$, 96 hours: 41 mg/l, Brachydanio rerio (Zebra Fish) |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 24 hours: 42 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | $EC_{50}$, 72 hours: 3,48 - 4,89 mg/l, Algae |

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

**Partition coefficient** Not applicable.

### 12.4. Mobility in soil

**Mobility** The product reacts with water to form a solid, insoluble reaction product which is not biodegradable.

### 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

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|---|---|
| **General information** | When handling waste, the safety precautions applying to handling of the product should be considered. |
| **Disposal methods** | Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. |

## SECTION 14: Transport information

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|---|---|
| **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

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|---|---|
| **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

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|---|---|
| **National regulations** | Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments. |
| **EU legislation** | Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).<br>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

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|---|---|
| **Abbreviations and acronyms used in the safety data sheet** | DNEL: Derived No Effect Level.<br>PNEC: Predicted No Effect Concentration.<br>PBT: Persistent, Bioaccumulative and Toxic substance.<br>vPvB: Very Persistent and Very Bioaccumulative.<br>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. |
| **General information** | Only trained personnel should use this material. |
| **Revision comments** | This is the first issue. |
| **Revision date** | 27/04/2021 |
| **Revision** | 1 |
| **SDS number** | 29934 |
| **Hazard statements in full** | H272 May intensify fire; oxidiser.<br>H301 Toxic if swallowed.<br>H311 Toxic in contact with skin.<br>H314 Causes severe skin burns and eye damage.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H331 Toxic if inhaled.<br>H335 May cause respiratory irritation.<br>H341 Suspected of causing genetic defects.<br>H350 May cause cancer. |