



## SAFETY DATA SHEET

### NITOSEAL MS600

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

##### **1.1. Product identifier**

**Product name** NITOSEAL MS600  
**Product number** 2010022UK9, 2010042UK9, 2010102UK9

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

**Identified uses** Sealant.

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

**Supplier** FOSROC Limited  
 Drayton Manor Business Park  
 Coleshill Road  
 Tamworth  
 Staffordshire  
 B78 3XN  
 Tel. +44 (0) 1827 262222  
 Fax. +44 (0) 1827 262444  
 enquiryuk@fosroc.com

##### **1.4. Emergency telephone number**

**Emergency telephone** +44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 08.30 to 16.00hrs Fri)

#### **SECTION 2: Hazards identification**

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

###### **Classification**

###### **Physical hazards**

Not Classified

###### **Health hazards**

Not Classified

###### **Environmental hazards**

Not Classified

##### **Classification (67/548/EEC or 1999/45/EC)**

###### **Human health**

The product is considered to be a low hazard under normal conditions of use. Prolonged skin contact may cause redness and irritation.

###### **Environmental**

The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

##### **2.2. Label elements**

###### **Hazard statements**

NC Not Classified

##### **2.3. Other hazards**

This substance is not classified as PBT or vPvB according to current EU criteria.

#### **SECTION 3: Composition/information on ingredients**

##### **3.2. Mixtures**

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<b>CALCIUM CARBONATE (STEARATE COATED)</b> CAS number: 471-34-1 EC number: 207-439-9	10-30%
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -
<b>SILYL TERMINATED POLYETHER</b> CAS number: 205265-06-1 EC number: –	10-30%
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -
<b>DI-ISO-DECYL PHTHALATE</b> CAS number: 68515-49-1 EC number: 271-091-4	10-30%
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -
<b>ALKYLALKOXYSILANE</b> CAS number: 18395-30-7 EC number: 242-272-5	1-5%
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Acute Tox. 4 - H302 Acute Tox. 4 - H332 STOT SE 3 - H335	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R20/22. Xi;R36/37/38. R10.
<b>TITANIUM DIOXIDE</b> CAS number: 13463-67-7 EC number: 236-675-5 REACH registration number: 01-2119489379-17-0000	1-5%
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -

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

No specific recommendations. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

###### Inhalation

Move affected person to fresh air at once.

###### Ingestion

Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

###### Skin contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

###### 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 irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

###### Inhalation

Irritation of nose, throat and airway.

###### Ingestion

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May cause discomfort if swallowed.

### **Skin contact**

Prolonged skin contact may cause redness and irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.

### **Eye contact**

Vapour or spray in the eyes may cause irritation and smarting.

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

#### **Notes for the doctor**

No specific recommendations.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

#### **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**

During fire, gases hazardous to health may be formed. No unusual fire or explosion hazards noted.

#### **Hazardous combustion products**

Heating may generate the following products: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Oxides of nitrogen. Oxides of silicon

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

No specific firefighting precautions known.

#### **Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## **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 discharge into drains or watercourses or onto the ground.

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

#### **Methods for cleaning up**

Scrape up and place in a container fitted with a lid. The spilled product produces an extremely slippery surface.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For waste disposal, see section 13.

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Good personal hygiene procedures should be implemented. Avoid 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.

#### **Storage class**

Chemical storage.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

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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

###### CALCIUM CARBONATE (STEARATE COATED)

Long-term exposure limit (8-hour TWA): WEL 10 mg/m3 Inhal. Dust 4 mg/m3 Resp. Dust

###### SILYL TERMINATED POLYETHER

Long-term exposure limit (8-hour TWA): 10 mg/m3

###### DI-ISO-DECYL PHTHALATE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m3

###### TITANIUM DIOXIDE

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

###### METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 266 mg/m3(Sk)

Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 333 mg/m3(Sk)

WEL = Workplace Exposure Limit

###### Ingredient comments

WEL = Workplace Exposure Limits

##### TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL	Industry - Inhalation; Long term : 10 mg/m3 Consumer - Oral; Long term : 700 mg/kg/day
PNEC	- Fresh water; >1 mg/l - Marine water; 0.127 mg/l - Soil; 100 mg/kg - STP; 100 mg/kg

##### AMINOPROPYLTRIMETHOXYSILANE (CAS: 13822-56-5)

DNEL	Workers - Dermal; Short term systemic effects: 8.3 mg/kg/day Workers - Dermal; Long term systemic effects: 8.3 mg/kg/day Workers - Inhalation; Short term systemic effects: 58 mg/m³ Workers - Inhalation; Long term systemic effects: 58 mg/m³
PNEC	- Fresh water; 0.33 mg/l - Marine water; 0.033 mg/l - Intermittent release; 3.3 mg/l

##### BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE (CAS: 52829-07-9)

DNEL	Workers - Inhalation; Long term, Short term local effects: 5.6 mg/m³ Workers - Dermal; Long term, Short term systemic effects: 2.0 mg/kg
PNEC	- Fresh water; 0.005 mg/l - Marine water; 0.0005 mg/l - STP; 1 mg/l

##### 8.2. Exposure controls

###### Protective equipment



###### Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

###### 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: Chemical splash goggles.

###### Hand protection

Wear protective gloves. Nitrile gloves or rubber gloves are recommended. Other types of gloves can be recommended by the gloves supplier.

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### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

### Hygiene measures

Do not smoke in work area. Wash hands 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 contaminated. When using do not eat, drink or smoke.

### Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

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## SECTION 9: Physical and Chemical Properties

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

#### Appearance

Paste.

#### Colour

Grey. Black. or White.

#### Odour

Slight / faint.

#### Odour threshold

Not determined.

#### pH

Not applicable.

#### Melting point

Not determined.

#### Initial boiling point and range

Not applicable.

#### Flash point

Not applicable.

#### Evaporation rate

Not applicable.

#### Evaporation factor

Not applicable.

#### Flammability (solid, gas)

No specific test data are available.

#### Upper/lower flammability or explosive limits

Not determined.

#### Other flammability

Not applicable.

#### Vapour pressure

Not determined.

#### Vapour density

Not determined.

#### Relative density

1.42 @ 25°C

#### Bulk density

Not applicable.

#### Solubility(ies)

Insoluble.

#### Partition coefficient

Not determined.

#### Auto-ignition temperature

Not determined.

#### Decomposition Temperature

Not determined.

#### Viscosity

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Not determined.

### **Explosive properties**

Not considered to be explosive.

### **Explosive under the influence of a flame**

Not considered to be explosive.

### **Oxidising properties**

Does not meet the criteria for classification as oxidising.

## **9.2. Other information**

### **Other information**

No data available.

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

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

Under normal conditions of storage and use, no hazardous reactions will occur.

### **10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

### **10.5. Incompatible materials**

#### **Materials to avoid**

Strong oxidising agents. Strong acids.

### **10.6. Hazardous decomposition products**

Heating may generate the following products: Oxides of carbon. Oxides of nitrogen. Oxides of silicon

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity - oral**

##### **ATE oral (mg/kg)**

38,167.9389313

#### **Acute toxicity - inhalation**

##### **ATE inhalation (gases ppm)**

343511.45038168

##### **ATE inhalation (vapours mg/l)**

839.69465649

##### **ATE inhalation (dusts/mists mg/l)**

114.50381679

#### **General information**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

#### **Inhalation**

Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature. Vapour may irritate respiratory system/lungs.

#### **Ingestion**

May cause discomfort if swallowed. Ingestion of significant amounts may result in severe systemic effects.

#### **Skin contact**

Prolonged contact may cause redness, irritation and dry skin. May cause skin sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May irritate eyes.

#### **Acute and chronic health hazards**

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No specific health hazards known.

**Target organs**

Not relevant.

**Medical symptoms**

No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

**Toxicological information on ingredients.****AMINOPROPYLTRIMETHOXYSILANE****Acute toxicity - oral**

LD 2970 mg/kg, Oral, Rat

**Acute toxicity - dermal**

LD >2000 mg/kg, Dermal, Rabbit

**SECTION 12: Ecological Information****Ecotoxicity**

The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**12.1. Toxicity**

Expected to be ecotoxic to fish/daphnia/algae.

**Ecological information on ingredients.****AMINOPROPYLTRIMETHOXYSILANE****Acute toxicity - fish**

LC , 96 hours: >934 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates**

LC , 48 hours: 331 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**

EC , 72 hours: >1000 mg/l, Desmodemus subspicatus

**Acute toxicity - microorganisms**

EC , 5.75 hours: 43 mg/l, Pseudomonas putida

**12.2. Persistence and degradability****Persistence and degradability**

There are no data on the degradability of this product.

**Ecological information on ingredients.****AMINOPROPYLTRIMETHOXYSILANE****Persistence and degradability**

The product is not readily biodegradable.

**12.3. Bioaccumulative potential**

The product contains potentially bioaccumulating substances.

**Partition coefficient**

Not determined.

**Ecological information on ingredients.****AMINOPROPYLTRIMETHOXYSILANE**

The product is not bioaccumulating. Hydrolyses

**12.4. Mobility in soil****Mobility**

The product is insoluble in water. Not considered mobile.

**12.5. Results of PBT and vPvB assessment**

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

**Ecological information on ingredients.****AMINOPROPYLTRIMETHOXYSILANE**

This substance is not classified as PBT or vPvB according to current EU criteria.

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### 12.6. Other adverse effects

None known.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **General information**

Waste is classified as hazardous waste. Do not empty into drains, sewers or water courses. Note that fully cured material is not considered as hazardous waste.

#### **Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### **Waste class**

08-04-10

## **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 MARPOL73/78 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**

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

#### **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).

#### **Guidance**

Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

#### **Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are known for this product.

#### **Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions on use are known for this product.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

#### **General information**

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as



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suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for a stated application or applications without seeking advice from Fosroc Ltd.

**Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 24/05/2015

**Revision** 3

**SDS number** 11872

**Risk phrases in full**

NC Not classified.

R10 Flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R20/22 Harmful by inhalation and if swallowed.

R36 Irritating to eyes.

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

R63 Possible risk of harm to the unborn child.

**Hazard statements in full**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.