



## SAFETY DATA SHEET NITOSEAL MS600

This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

### 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  
 England  
 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 (Monday-Sunday 24 hours a day)

### SECTION 2: Hazards identification

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

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

**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Not Classified

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

### SECTION 3: Composition/information on ingredients

## NITOSEAL MS600

### 3.2. Mixtures

<b>CALCIUM CARBONATE (STEARATE COATED)</b>			<b>10-30%</b>
CAS number: 471-34-1	EC number: 207-439-9		
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -		
<b>DI-ISO-DECYL PHTHALATE</b>			<b>10-30%</b>
CAS number: 68515-49-1	EC number: 271-091-4		
<b>Classification</b> Not Classified			
<b>POLYAMIDE WAX</b>			<b>1-5%</b>
CAS number: 126096-16-6	EC number: 484-050-2	REACH registration number: 01-0000020228-74-XXXX	
M factor (Acute) = 10	M factor (Chronic) = 10		
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> -		
<b>Trimethoxy(2-methylpropyl)silane</b>			<b>1-5%</b>
CAS number: 18395-30-7	EC number: 242-272-5		
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335			
<b>TITANIUM DIOXIDE</b>			<b>1-5%</b>
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01-2119489379-17-0000	
<b>Classification</b> Not Classified			
<b>AMINOPROPYLTRIMETHOXYSILANE</b>			<b>&lt;1%</b>
CAS number: 13822-56-5	EC number: 237-511-5		
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318			

## NITOSEAL MS600

**BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE** <1%

CAS number: 52829-07-9

EC number: 258-207-9

**Classification**

Eye Irrit. 2 - H319

Aquatic Chronic 2 - H411

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

-

**Diocetyl tin Oxide**

&lt;1%

CAS number: 870-08-6

EC number: 212-791-1

**Classification**

Repr. 2 - H361fd

STOT RE 2 - H373

Aquatic Chronic 3 - H412

**CARBENDAZIM (ISO)**

&lt;1%

CAS number: 10605-21-7

EC number: 234-232-0

M factor (Acute) = 1

M factor (Chronic) = 1

**Classification**

Muta. 1B - H340

Repr. 1B - H360FD

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

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>General information</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Inhalation</b>	Move affected person to fresh air at once.
<b>Ingestion</b>	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.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. 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

<b>Inhalation</b>	Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.

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**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** Treat symptomatically.

## 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.

## 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** Collect and place in suitable waste disposal containers and seal securely. Take care as floors and other surfaces may become slippery.

### 6.4. Reference to other sections

**Reference to other sections** For waste disposal, see section 13.

## 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)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

## NITOSEAL MS600

### Occupational exposure limits

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

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> Inhal. Dust 4 mg/m<sup>3</sup> Resp. Dust

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

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

#### **TITANIUM DIOXIDE**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

WEL = Workplace Exposure Limit

### **Ingredient comments**

WEL = Workplace Exposure Limits

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

<b>DNEL</b>	Industry - Inhalation; Long term : 10 mg/m <sup>3</sup> Consumer - Oral; Long term : 700 mg/kg/day
<b>PNEC</b>	- Fresh water; >1 mg/l - marine water; 0.127 mg/l - Soil; 100 mg/kg - STP; 100 mg/kg

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

<b>DNEL</b>	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/m <sup>3</sup> Workers - Inhalation; Long term systemic effects: 58 mg/m <sup>3</sup>
<b>PNEC</b>	- 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)

<b>DNEL</b>	Workers - Inhalation; Long term, Short term local effects: 5.6 mg/m <sup>3</sup> Workers - Dermal; Long term, Short term systemic effects: 2.0 mg/kg
<b>PNEC</b>	- 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.

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<b>Hand protection</b>	Wear protective gloves. Nitrile rubber. Rubber (natural, latex). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
<b>Hygiene measures</b>	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 contaminated. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Paste.
<b>Colour</b>	Various colours.
<b>Odour</b>	Slight / faint.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	No.
<b>Upper/lower flammability or explosive limits</b>	The product is not flammable.
<b>Other flammability</b>	Not applicable.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.42 @ 25°C
<b>Bulk density</b>	Not determined.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.

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**Oxidising properties** Does not meet the criteria for classification as oxidising.

### 9.2. Other information

**Other information** No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**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

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

### 10.4. Conditions to avoid

**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

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 38,167.94

#### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 343,511.45

**ATE inhalation (vapours mg/l)** 839.69

**ATE inhalation (dusts/mists mg/l)** 114.5

**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** No specific health hazards known.

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### Toxicological information on ingredients.

#### TITANIUM DIOXIDE

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> >6.82 mg/l, Inhalation, Rat

##### Skin corrosion/irritation

**Animal data** Not irritating.

##### Skin sensitisation

**Skin sensitisation** - Guinea pig: Not sensitising.

##### Carcinogenicity

**IARC carcinogenicity** IARC Group 2B Possibly carcinogenic to humans.

##### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure

##### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

##### Aspiration hazard

**Aspiration hazard** Based on available data, the classification criteria are not met.

#### AMINOPROPYLTRIMETHOXYSILANE

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 2970 mg/kg, Oral, Rat

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

#### BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> 7.7 mg/l/4hr/day, Inhalation, Rat

#### Diocetyl tin Oxide

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,500.0

**Species** Rat

#### CARBENDAZIM (ISO)

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 15000 mg/kg, Oral, Rat



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### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat, Rabbit

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC50 4 h 5.8 mg/l, Inhalation, Rat

## 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

**Toxicity** Expected to be ecotoxic to fish/daphnia/algae.

### Ecological information on ingredients.

#### TITANIUM DIOXIDE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC50, 96 hours: > 10000 mg/l,

#### AMINOPROPYLTRIMETHOXYSILANE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >934 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 331 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: >1000 mg/l, Desmodosmus subspicatus

**Acute toxicity - microorganisms** EC<sub>50</sub>, 5.75 hours: 43 mg/l, Pseudomonas putida

#### BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 13 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 24 hours: 17 mg/l, Daphnia magna

#### CARBENDAZIM (ISO)

##### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C50 ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.83 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.22 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 419 mg/l, Scenedesmus subspicatus

##### Chronic aquatic toxicity

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**M factor (Chronic)** 1

### 12.2. Persistence and degradability

**Persistence and degradability** The product contains persistent (not readily degradable) substances.

### Ecological information on ingredients.

#### AMINOPROPYLTRIMETHOXYSILANE

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

#### CARBENDAZIM (ISO)

**Biodegradation** Not readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product contains potentially bioaccumulating substances.

**Partition coefficient** Not determined.

### Ecological information on ingredients.

#### TITANIUM DIOXIDE

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

#### AMINOPROPYLTRIMETHOXYSILANE

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

#### CARBENDAZIM (ISO)

**Bioaccumulative potential** log Kow: < 3,

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water. Not considered mobile.

### 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.

### Ecological information on ingredients.

#### AMINOPROPYLTRIMETHOXYSILANE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### CARBENDAZIM (ISO)

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

## NITOSEAL MS600

### 12.6. Other adverse effects

**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.

### **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**    Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

### **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).

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).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

#### **Guidance**

Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and Preparations.

## NITOSEAL MS600

**Authorisations (Annex XIV Regulation 1907/2006)** No specific authorisations are known for this product.

**Restrictions (Annex XVII 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

<b>General information</b>	For professional users only.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	29/01/2019
<b>Revision</b>	4
<b>Supersedes date</b>	12/06/2017
<b>SDS number</b>	11872
<b>Hazard statements in full</b>	<p>H226 Flammable liquid and vapour.  H302 Harmful if swallowed.  H315 Causes skin irritation.  H318 Causes serious eye damage.  H319 Causes serious eye irritation.  H332 Harmful if inhaled.  H335 May cause respiratory irritation.  H340 May cause genetic defects.  H360FD May damage fertility. May damage the unborn child.  H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  H373 May cause damage to organs through prolonged or repeated exposure.  H400 Very toxic to aquatic life.  H410 Very toxic to aquatic life with long lasting effects.  H411 Toxic to aquatic life with long lasting effects.  H412 Harmful to aquatic life with long lasting effects.</p>

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.