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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CALCIUM CARBONATE (STEARATE COATED) 10-30%
CAS number: 471-34-1   EC number: 207-439-9

Classification
Not Classified

SILYL TERMINATED POLYETHER 10-30%
CAS number: 205265-06-1   EC number: –

Classification
Not Classified

DI-ISO-DECYL PHTHALATE 10-30%
CAS number: 68515-49-1   EC number: 271-091-4

Classification
Not Classified

ALKYLALKOXYSLANE 1-5%
CAS number: 18395-30-7   EC number: 242-272-5

Classification
Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Acute Tox. 4 - H302
Acute Tox. 4 - H332
STOT SE 3 - H335

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

TITANIUM DIOXIDE 1-5%
CAS number: 13463-67-7   EC number: 236-675-5   REACH registration number: 01-2119489379-17-0000

Classification
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

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.

**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 (CO2). 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
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.

**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

**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**

TITANIUM DIOXIDE (CAS: 13463-67-7)

- ANEL 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

AMINOPROPYLTRIMETHOXYLSILANE (CAS: 13822-56-5)

- DNEL Workers - Dermal; Short term systemic effects: 8.3 mg/kg/day
- DNEL Workers - Inhalation; Short 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
- DNEL 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.

SECTION 9: Physical and Chemical Properties

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.

**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

**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, Desmodesmus 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.
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

Guidance

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.

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