SAFETY DATA SHEET
NITOSEAL MS60

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

1.1. Product identifier

Product name NITOSEAL MS60

Product number 2010502UK9, 2010510UK9, 2010522UK9, 2010530UK9, 2010540UK9, 2010552UK9, 2010560UK9, 2010572UK9, 2010580UK9, 2010600UK9

UFI UFI: CS90-10CR-S00C-G1DR, Grey., UFI: M4A0-204C-000A-4DR0, White.

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 International 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 Skin Sens. 1 - H317

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 pictograms

NITOSEAL MS60

Signal word	Warning
Hazard statements	H317 May cause an allergic skin reaction.
Precautionary statements	P261 Avoid breathing vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/ container in accordance with national regulations.
Contains	N,N´-ETHANE-1,2-DIYLBIS(HEXANAMIDE), Dioctyltin Oxide
Supplementary precautionary statements	P272 Contaminated work clothing should not be allowed out of the workplace. P321 Specific treatment (see medical advice on this label).

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

CALCIUM CARBONATE **60-100%**

CAS number: 471-34-1 EC number: 207-439-9

Classification	Classification (67/548/EEC or 1999/45/EC)
Not Classified	-

DI-ISO-DECYL PHTHALATE **10-30%**

CAS number: 68515-49-1 EC number: 271-091-4

Classification
Not Classified

N,N´-ETHANE-1,2-DIYLBIS(HEXANAMIDE) **1-5%**

CAS number: — EC number: 432-430-3

Classification
Skin Sens. 1 - H317
Aquatic Chronic 4 - H413

TITANIUM DIOXIDE **1-5%**

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

Classification
Not Classified

NITOSEAL MS60

AMINOPROPYLTRIMETHOXYSILANE **<1%**

CAS number: 13822-56-5 EC number: 237-511-5

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318

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)
-

Dioctyltin Oxide **<1%**

CAS number: 870-08-6 EC number: 212-791-1

Classification
Repr. 2 - H361fd
STOT RE 2 - H373
Aquatic Chronic 3 - H412

TETRAETHYL SILICATE **<1%**

CAS number: 78-10-4 EC number: 201-083-8

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H332
Eye Irrit. 2 - H319
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 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 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

NITOSEAL MS60

Inhalation	Irritation of nose, throat and airway.
Ingestion	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	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	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.

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)

NITOSEAL MS60

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

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

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

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.

NITOSEAL MS60

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 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. Protective gloves should have a minimum thickness of 0.4 mm.
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	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.
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	Various colours.
Odour	Slight.
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.
Upper/lower flammability or explosive limits	The product is not flammable.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.6 @ 25°C
Bulk density	Not determined.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.

NITOSEAL MS60

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

Volatile organic compound	This product contains a maximum VOC content of 30 g/litre.

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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 may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
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.
Target organs	No specific target organs known.

Toxicological information on ingredients.

N,N´-ETHANE-1,2-DIYLBIS(HEXANAMIDE)

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} >2000 mg/kg, Oral, Rat

NITOSEAL MS60

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} >2000 mg/kg, Dermal, Rat

TITANIUM DIOXIDE

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC_{50} >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.

AMINOPROPYLTRIMETHOXYSILANE

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} 2970 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} >2000 mg/kg, Dermal, Rabbit

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

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC50 7.7 mg/l/4hr/day, Inhalation, Rat

Dioctyltin Oxide

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 2,500.0

Species 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.

Ecological information on ingredients.

N,N´-ETHANE-1,2-DIYLBIS(HEXANAMIDE)

Ecotoxicity The product contains a substance which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

NITOSEAL MS60

Toxicity The product contains a substance which is harmful to aquatic organisms.

Ecological information on ingredients.

N,N´-ETHANE-1,2-DIYLBIS(HEXANAMIDE)

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: >1000 mg/l, Daphnia magna

TITANIUM DIOXIDE

Acute aquatic toxicity

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

AMINOPROPYLTRIMETHOXYSILANE

Acute aquatic toxicity

Acute toxicity - fish	LC_{80}, 96 hours: >934 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	LC_{80}, 48 hours: 331 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{80}, 72 hours: >1000 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EC_{80}, 5.75 hours: 43 mg/l, Pseudomonas putida

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

Acute aquatic toxicity

Acute toxicity - fish	LC_{80}, 96 hours: 13 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	LC_{80}, 24 hours: 17 mg/l, Daphnia magna

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.

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.

NITOSEAL MS60

AMINOPROPYLTRIMETHOXYSILANE

Bioaccumulative potential 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

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.

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

NITOSEAL MS60

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	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.
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

Abbreviations and acronyms used in the safety data sheet	ATE: Acute Toxicity Estimate. DNEL: Derived No Effect Level. DMEL: Derived Minimal Effect Level. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. vPvB: Very Persistent and Very Bioaccumulative.
General information	For professional users only.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	28/10/2020
Revision	3c
Supersedes date	09/09/2019
SDS number	12022

NITOSEAL MS60

Hazard statements in full

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.