



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

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

Skin Sens. 1 - H317

Environmental hazards

Not Classified

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

R43.

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

Pictogram



Signal word Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

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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.
 P501 Dispose of contents/container in accordance with national regulations.

Contains

N,N'-ETHANE-1,2-DIYLBIS(HEXANAMIDE)

Supplementary precautionary statements

P261 Avoid breathing vapour/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P321 Specific treatment (see medical advice on this label).
 P362+P364 Take off contaminated clothing and wash it before reuse.

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**

CALCIUM CARBONATE CAS number: – EC number: –	60-100%
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -
DI-ISO-DECYL PHTHALATE CAS number: 68515-49-1 EC number: 271-091-4	10-30%
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -
SILYL TERMINATED POLYETHER CAS number: 205265-06-1 EC number: –	10-30%
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -
N,N'-ETHANE-1,2-DIYLBIS(HEXANAMIDE) CAS number: – EC number: 432-430-3	1-5%
Classification Skin Sens. 1 - H317 Aquatic Chronic 4 - H413	Classification (67/548/EEC or 1999/45/EC) R43,R53.
TITANIUM DIOXIDE CAS number: 13463-67-7 EC number: 236-675-5 REACH registration number: 01-2119489379-17-0000	1-5%
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -
Diocetyl tin Oxide CAS number: 870-08-6 EC number: 212-791-1	<1%
Classification Repr. 2 - H361fd STOT RE 2 - H373 Aquatic Chronic 3 - H412	Classification (67/548/EEC or 1999/45/EC) Xn;R48/22. Repr. Cat. 3;R62,R63. R52/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

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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

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.

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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

Long-term exposure limit (8-hour TWA): 4.0 mg/m³ resp.dust

DI-ISO-DECYL PHTHALATE

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

SILYL TERMINATED POLYETHER

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

WEL = Workplace Exposure Limit

TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL	Industry - Inhalation; Long term : 10 mg/m ³ 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/m ³ Workers - Inhalation; Long term systemic effects: 58 mg/m ³
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/m ³ 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

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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.

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

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 specific test data are available.

Upper/lower flammability or explosive limits

Not determined.

Other flammability

Not applicable.

Vapour pressure

Not determined.

Vapour density

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Not determined.

Relative density

1.6 @ 25°C

Bulk density

Not applicable.

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.

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

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

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

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individuals.

Eye contact

May irritate eyes.

Acute and chronic health hazards

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.**N,N'-ETHANE-1,2-DIYLBIS(HEXANAMIDE)****Acute toxicity - oral**

LD >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

LD >2000 mg/kg, Dermal, Rat

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.

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

Expected to be ecotoxic to fish/daphnia/algae.

Ecological information on ingredients.**N,N'-ETHANE-1,2-DIYLBIS(HEXANAMIDE)****Acute toxicity - fish**

LC , 96 hours: >1000 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC , 48 hours: >1000 mg/l, Daphnia magna

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.

NITOSEAL MS60**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.

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.

NITOSEAL MS60**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 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 12022

Risk phrases in full

NC Not classified.
R10 Flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36 Irritating to eyes.
R36/37/38 Irritating to eyes, respiratory system and skin.
R43 May cause sensitisation by skin contact.
R53 May cause long-term adverse effects in the aquatic environment.
R63 Possible risk of harm to the unborn child.

Hazard statements in full

H317 May cause an allergic skin reaction.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

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.