



## SAFETY DATA SHEET NITOSEAL MS100

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

#### 1.1. Product identifier

**Product name** NITOSEAL MS100

**Product number** 2006022UK9,2006044UK9,2006050UK9,2006084UK9,2006102UK9,2006121UK9,2006165UK9,2006166UK9,2006181UK9,2006202UK9,2006222UK9,2006224UK9,2006225UK9,2006302UK9,2006304UK9

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

**Identified uses** Joint sealant for facades

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

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

#### 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** Aquatic Chronic 2 - H411

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

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### Pictogram



### Signal word

Warning

### Hazard statements

H411 Toxic to aquatic life with long lasting effects.  
 H317 May cause an allergic skin reaction.

### Precautionary statements

P273 Avoid release to the environment.  
 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.  
 P391 Collect spillage.

### 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

<b>N,N'-ETHANE-1,2-DIYLBIS(HEXANAMIDE)</b>		<b>1-5%</b>
CAS number: —		EC number: 432-430-3
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Skin Sens. 1 - H317	R43,R53.	
Aquatic Chronic 4 - H413		
<b>DISTILLED N-ALKYL STEARYLAMINE</b>		<b>&lt;1%</b>
CAS number: 124-30-1		EC number: 204-695-3
M factor (Acute) = 10		M factor (Chronic) = 10
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Skin Irrit. 2 - H315	Xi;R38,R41. N;R50.	
Eye Dam. 1 - H318		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

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<b>Diocetyl tin Oxide</b>	<b>&lt;1%</b>
CAS number: 870-08-6	EC number: 212-791-1
<b>Classification</b> Repr. 2 - H361fd STOT RE 2 - H373 Aquatic Chronic 3 - H412	<b>Classification (67/548/EEC or 1999/45/EC)</b> 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.

**Composition comments**      The information in this section has changed since the last version.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	No specific recommendations. 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 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

<b>General information</b>	Repeated and prolonged skin contact may lead to skin disorders.
<b>Inhalation</b>	Low volatility makes inhalation unlikely at ambient temperature.
<b>Ingestion</b>	May cause irritation of mouth, throat and digestive tract. Ingestion of significant amounts may result in severe systemic effects.
<b>Skin contact</b>	Unlikely to irritate on brief or occasional exposure.
<b>Eye contact</b>	May cause transient irritation.

#### 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

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	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.

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**Hazardous combustion products**      Irritant fumes.

### 5.3. Advice for firefighters

**Protective actions during firefighting**      No specific firefighting precautions known.

**Special protective equipment for firefighters**      Self-contained breathing apparatus.

## 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 the spillage or runoff entering drains, sewers or watercourses.

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

**Methods for cleaning up**      Soak up with inert absorbent or contain and remove by best available means. Gather into containers.

### 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

**Ingredient comments**      No exposure limits known for ingredient(s).

#### DISTILLED N-ALKYL STEARYLAMINE (CAS: 124-30-1)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 0.38 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 0.09 mg/kg/day Workers - Dermal; Long term local effects: 0.06 %
<b>PNEC</b>	- Fresh water; 0.26 µg/l - Marine water; 0.026 µg/l - Intermittent release; 1.6 µg/l - STP; 550 µg/l

### 8.2. Exposure controls

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### 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 / 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 @ at 20°C
Bulk density	Not applicable.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.

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<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.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

<b>Other information</b>	Not determined.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, no hazardous reactions will occur.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	None known.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong acids. Strong oxidising agents.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Fire creates: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,000.0
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<b>Species</b>	Rat
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<b>Notes (oral LD<sub>50</sub>)</b>	The toxicological assessment is based on a knowledge of the toxicity of the product's components.
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<b>General information</b>	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
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<b>Inhalation</b>	Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature. Vapour may irritate respiratory system/lungs.
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<b>Ingestion</b>	May cause discomfort if swallowed. Ingestion of significant amounts may result in severe systemic effects.
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<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin. May cause skin sensitisation or allergic reactions in sensitive individuals.
<b>Eye contact</b>	May irritate eyes.
<b>Acute and chronic health hazards</b>	No specific health hazards known.
<b>Target organs</b>	Not relevant.
<b>Medical symptoms</b>	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

**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

#### DISTILLED N-ALKYL STEARYLAMINE

##### 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> 250 mg/kg, Intraperitoneal, Mouse

##### Aspiration hazard

**Aspiration hazard** May be fatal if swallowed and enters airways.

#### Diocetyltn Oxide

##### Acute toxicity - oral

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

**Species** Rat

### SECTION 12: Ecological Information

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

### 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

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

### Ecological information on ingredients.

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

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >1000 mg/l, Onchorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: >1000 mg/l, Daphnia magna

### DISTILLED N-ALKYL STEARYLAMINE

#### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.01 < L(E)C50 ≤ 0.1

M factor (Acute) 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 4.21 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.32 mg/l, Daphnia magna

#### Chronic aquatic toxicity

M factor (Chronic) 10

#### 12.2. Persistence and degradability

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

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Has the potential to bioaccumulate.

**Partition coefficient** Not determined.

#### Ecological information on ingredients.

### DISTILLED N-ALKYL STEARYLAMINE

**Partition coefficient** log Pow: 8.35

#### 12.4. Mobility in soil

**Mobility** Paste. Insoluble in water.

#### 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.

### DISTILLED N-ALKYL STEARYLAMINE

**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



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<b>General information</b>	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.
<b>Disposal methods</b>	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

#### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DISTILLED N-ALKYL STEARYLAMINE, BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DISTILLED N-ALKYL STEARYLAMINE, BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DISTILLED N-ALKYL STEARYLAMINE, BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE)
<b>Proper shipping name (ADN)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DISTILLED N-ALKYL STEARYLAMINE, BIS-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE)

#### 14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

#### 14.5. Environmental hazards

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Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 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

<b>National regulations</b>	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
<b>EU legislation</b>	Commission Regulation (EU) No 453/2010 of 20 May 2010. 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).
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.
<b>Authorisations (Title VII Regulation 1907/2006)</b>	No specific authorisations are known for this product.
<b>Restrictions (Title VIII Regulation 1907/2006)</b>	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>	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.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.

## NITOSEAL MS100

<b>Revision date</b>	22/09/2015
<b>Revision</b>	5
<b>Supersedes date</b>	11/06/2015
<b>SDS number</b>	11905
<b>Hazard statements in full</b>	<p>H304 May be fatal if swallowed and enters airways.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H373 May cause damage to organs (Gastro-intestinal tract, liver, immune system) through prolonged or repeated exposure.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p> <p>H413 May cause long lasting harmful effects to aquatic life.</p>

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.