

## SAFETY DATA SHEET NITOSEAL PU12 BASE

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

#### 1.1. Product identifier

**Product name** NITOSEAL PU12 BASE  
**Product number** 1986000UK9

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

**Identified uses** Base component for two-part isocyanate-based 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  
 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** Repr. 2 - H361fd  
**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. Contains a substance/a group of substances which may damage fertility and the unborn child.

**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

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<b>Hazard statements</b>	H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
<b>Precautionary statements</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up. P501 Dispose of contents/container in accordance with national regulations.
<b>Contains</b>	ISOCYANATE PREPOLYMER

### 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>CALCIUM CARBONATE (STEARATE COATED)</b>		<b>30-60%</b>
CAS number: 471-34-1	EC number: 207-439-9	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Not Classified	-	
<b>ISOCYANATE PREPOLYMER</b>		<b>10-30%</b>
CAS number: —		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Repr. 2 - H361fd	-	
<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>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Not Classified	-	
<b>SILICA HYDROPHOBIC AMORPHOUS</b>		<b>&lt;1%</b>
CAS number: 7631-86-9	EC number: 231-545-4	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
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

<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>	Unlikely route of exposure as the product does not contain volatile substances. Move affected person to fresh air at once.

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<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
<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>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<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.
<b>Eye contact</b>	Vapour or spray in the eyes may cause irritation and smarting.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant 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

<b>Specific hazards</b>	During fire, gases hazardous to health may be formed.
<b>Hazardous combustion products</b>	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Cyanides. Nitrous gases (NO <sub>x</sub> ). Sulphurous gases (SO <sub>x</sub> ).

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
<b>Special protective equipment for firefighters</b>	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

<b>Personal precautions</b>	For personal protection, see Section 8.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Collect and place in suitable waste disposal containers and seal securely.
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### 6.4. Reference to other sections

## NITOSEAL PU12 BASE

**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/m<sup>3</sup> Inhal. Dust 4 mg/m<sup>3</sup> Resp. Dust

##### TITANIUM DIOXIDE

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

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

##### SILICA HYDROPHOBIC AMORPHOUS

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

Short-term exposure limit (15-minute): WEL 2.4 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

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

**DNEL** Industry - Inhalation; Long term : 10 mg/m<sup>3</sup>  
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

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate general and local exhaust 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

Gloves are recommended for prolonged use. Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). Rubber or plastic.

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<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>	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.
<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>	White.
<b>Odour</b>	Mild.
<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>	>150°C
<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	No specific test data are available.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Other flammability</b>	Not applicable.
<b>Vapour pressure</b>	<0.05 kPa @ 20°C
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.54 @ 20°C
<b>Bulk density</b>	Not applicable.
<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.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

#### 9.2. Other information

<b>Other information</b>	Not available.
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### 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. Sulphurous gases (SO<sub>x</sub>). Cyanides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Reproductive toxicity

**Reproductive toxicity - fertility** Contains a substance/a group of substances which may damage fertility.

**Reproductive toxicity - development** Contains a substance/a group of substances which may damage the unborn child.

##### **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.

##### **Ingestion**

May cause irritation of mouth, throat and digestive tract. Ingestion of significant amounts may result in severe systemic effects.

##### **Skin contact**

Unlikely to irritate on brief or occasional exposure. Prolonged contact may cause redness, irritation and dry skin.

##### **Eye contact**

May cause temporary eye irritation.

##### **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.

### SECTION 12: Ecological Information

#### **Ecotoxicity**

No negative effects on the aquatic environment are known.

#### 12.1. Toxicity

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**Toxicity** Not expected to be ecotoxic to fish/daphnia/algae

### Ecological information on ingredients.

#### ISOCYANATE PREPOLYMER

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >10000 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.14 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours: 1.3 mg/l, Algae

### 12.2. Persistence and degradability

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

**Phototransformation** Not available.

### Ecological information on ingredients.

#### ISOCYANATE PREPOLYMER

<b>Persistence and degradability</b>	The product is not readily biodegradable.
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### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### 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.

### 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

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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

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** 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).

**Guidance** Workplace Exposure Limits EH40.  
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** 18/07/2015



**NITOSEAL PU12 BASE**

<b>Revision</b>	3
<b>SDS number</b>	12782
<b>Risk phrases in full</b>	NC Not classified. R38 Irritating to skin.
<b>Hazard statements in full</b>	H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

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.



## SAFETY DATA SHEET NITOSEAL PU12 CURING AGENT

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

#### 1.1. Product identifier

**Product name** NITOSEAL PU12 CURING AGENT

**Product number** A1986002UK9

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

**Identified uses** Hardener component for two-part isocyanate-based 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  
 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 Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 3 - H412

**Classification (67/548/EEC or 1999/45/EC)** Xn;R22. C;R34. R43. N;R51/53.

**Human health** Corrosive to skin and eyes. The product contains a sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals. Contains a substance/a group of substances which may impair fertility. Contains a substance/a group of substances which may damage the unborn child.

**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

Danger

### Hazard statements

H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P260 Do not breathe vapour/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Contains

ISOPHORONEDIAMINE, ORTHO TOLYL BIGUANIDE

### Supplementary precautionary statements

P261 Avoid breathing vapour/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P310 Immediately call a POISON CENTER/doctor.  
 P321 Specific treatment (see medical advice on this label).  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P363 Wash contaminated clothing before reuse.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with national regulations.

### 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>CALCIUM CARBONATE (STEARATE COATED)</b>	<b>30-60%</b>
CAS number: 471-34-1	EC number: 207-439-9
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified	-
<b>BENZYL ALCOHOL</b>	<b>10-30%</b>
CAS number: 100-51-6	EC number: 202-859-9
	REACH registration number: 01-2119492630-38-xxxx
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	

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<b>ISOPHORONEDIAMINE</b>		<b>10-30%</b>
CAS number: 2855-13-2	EC number: 220-666-8	REACH registration number: 01-2119514687-32-xxxx
<b>Classification</b>		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Skin Corr. 1B - H314		
Skin Sens. 1 - H317		
Aquatic Chronic 3 - H412		
<b>ORTHO TOLYL BIGUANIDE</b>		<b>5-10%</b>
CAS number: 93-69-6	EC number: 202-268-6	
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>
Eye Dam. 1 - H318		Xi;R41. R43.
Skin Sens. 1 - H317		
Aquatic Chronic 3 - H412		
<b>NONYLPHENOL</b>		<b>&lt;1%</b>
CAS number: 25154-52-3	EC number: 246-672-0	
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b>		
Acute Tox. 4 - H302		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Repr. 2 - H361fd		
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>Inhalation</b>	Move affected person to fresh air at once. Get medical attention.
<b>Ingestion</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
<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 immediately. Continue to rinse.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Coughing, chest tightness, feeling of chest pressure.
<b>Ingestion</b>	May cause chemical burns in mouth and throat.

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**Skin contact** Prolonged contact may cause redness, irritation and dry skin. May cause sensitisation by skin contact.

**Eye contact** Irritation of eyes and mucous membranes.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## 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** Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

### 5.3. Advice for firefighters

**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** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours. Provide adequate ventilation.

### 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** Corrosive storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## NITOSEAL PU12 CURING AGENT

### 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/m<sup>3</sup> Inhal. Dust 4 mg/m<sup>3</sup> Resp. Dust

##### **BENZYL ALCOHOL**

Long-term exposure limit (8-hour TWA): TLV - Threshold Limit Value

Short-term exposure limit (15-minute): TLV - Threshold Limit Value

WEL = Workplace Exposure Limit

##### **BENZYL ALCOHOL (CAS: 100-51-6)**

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 90 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 9.5 mg/kg bw/day Workers - Dermal; systemic effects: 47 mg/kg bw/day
<b>PNEC</b>	- Fresh water; 1 mg/l - Marine water; 0.1 mg/l

##### **ISOPHORONEDIAMINE (CAS: 2855-13-2)**

<b>PNEC</b>	- Fresh water; 0.06 mg/l - Marine water; 0.006 mg/l
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##### **ORTHO TOLYL BIGUANIDE (CAS: 93-69-6)**

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 5.88 Industry - Inhalation; Short term systemic effects: 35.26 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: no threshold derived Industry - Dermal; Short term systemic effects: 55.6
<b>PNEC</b>	- Fresh water, Marine water; 0.15 mg/l

#### 8.2. Exposure controls

##### Protective equipment



##### **Appropriate engineering controls**

Provide adequate ventilation.

##### **Eye/face protection**

Wear tight-fitting, chemical splash goggles or face shield.

##### **Hand protection**

Wear protective gloves. Butyl rubber. Nitrile rubber. Rubber (natural, latex). Polyvinyl chloride (PVC).

##### **Other skin and body protection**

Wear appropriate clothing to prevent skin contamination.

##### **Hygiene measures**

Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

##### **Respiratory protection**

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

## NITOSEAL PU12 CURING AGENT

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Amine. Musty (mouldy).
<b>Odour threshold</b>	Not determined.
<b>pH</b>	pH (concentrated solution): approx. 12
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	>200°C @ 1 atm
<b>Flash point</b>	131°C
<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Other flammability</b>	Not applicable.
<b>Vapour pressure</b>	0.04 kPa @ 20°C
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.46 @ at 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	>400°C
<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

**Other information** Not determined.

### 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 and when used as recommended.

## NITOSEAL PU12 CURING AGENT

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**      The following materials may react violently with the product: Strong oxidising agents.

### 10.4. Conditions to avoid

**Conditions to avoid**      Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid**      Strong acids. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products**      Oxides of carbon. Oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)**      3,164.68

#### Acute toxicity - dermal

**ATE dermal (mg/kg)**      9,970.7

#### Acute toxicity - inhalation

**ATE inhalation (gases ppm)**      29,135.17

**ATE inhalation (vapours mg/l)**      71.22

**ATE inhalation (dusts/mists mg/l)**      9.71

**Inhalation**      May cause respiratory system irritation. May cause sensitisation by inhalation. May cause respiratory allergy.

**Ingestion**      Harmful if swallowed. Causes burns.

**Skin contact**      May cause allergic contact eczema. Product has a defatting effect on skin. May cause allergic contact eczema. May cause sensitisation by skin contact. Causes burns. Harmful in contact with skin.

**Eye contact**      Severe irritation, burning and tearing. Causes burns.

### Toxicological information on ingredients.

#### BENZYL ALCOHOL

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)**      1,620.0

**Species**      Rat

**ATE oral (mg/kg)**      1,620.0

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)**      2,000.0



**NITOSEAL PU12 CURING AGENT**

**Species** Rabbit

**ISOPHORONEDIAMINE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub>  
mg/kg)** 1.03

**Species** Rat

**ATE oral (mg/kg)** 500.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub>  
mg/kg)** 1,840.0

**Species** Rabbit

**ATE dermal (mg/kg)** 1,100.0

**NONYLPHENOL****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub>  
mg/kg)** 1,620.0

**Species** Rat

**ATE oral (mg/kg)** 1,620.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub>  
mg/kg)** 2,031.0

**Species** Rat

**SECTION 12: Ecological Information**

**Ecotoxicity** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**12.1. Toxicity**

**Toxicity** Ecotoxic to fish/daphnia/algae

**Ecological information on ingredients.****BENZYL ALCOHOL**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 460 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic  
invertebrates** EC<sub>50</sub>, 48 hours: 230 mg/l, Daphnia magna

**Acute toxicity - aquatic  
plants** EC<sub>50</sub>, 72 hours: 770 mg/l, Pseudokirchneriella subcapitata

**ISOPHORONEDIAMINE**

## NITOSEAL PU12 CURING AGENT

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 110 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 23 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours: 50 mg/l, Algae

### NONYLPHENOL

#### Acute aquatic toxicity

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

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.128 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.0848 mg/l, Daphnia magna

#### Chronic aquatic toxicity

**M factor (Chronic)** 1

### 12.2. Persistence and degradability

**Persistence and degradability** The product is not expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### Ecological information on ingredients.

### NONYLPHENOL

**Bioaccumulative potential** May accumulate in soil and water systems.

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water and will sediment in water systems.

### 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.

### 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.

**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

### 14.1. UN number

## NITOSEAL PU12 CURING AGENT

UN No. (ADR/RID)	2327
UN No. (IMDG)	2327
UN No. (ICAO)	2327
UN No. (ADN)	2327

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	TRIMETHYLHEXAMETHYLENEDIAMINES, NONYLPHENOL
Proper shipping name (IMDG)	TRIMETHYLHEXAMETHYLENEDIAMINES, NONYLPHENOL
Proper shipping name (ICAO)	TRIMETHYLHEXAMETHYLENEDIAMINES, NONYLPHENOL
Proper shipping name (ADN)	TRIMETHYLHEXAMETHYLENEDIAMINES, NONYLPHENOL

### 14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C7
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

#### 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

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80

## NITOSEAL PU12 CURING AGENT

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

#### SECTION 15: Regulatory information

##### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	Control of Substances Hazardous to Health Regulations 2002 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	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 453/2010 of 20 May 2010.
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228.
<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>	Only trained personnel should use this material.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	12/06/2015
<b>Revision</b>	3
<b>SDS number</b>	12961
<b>Risk phrases in full</b>	NC Not classified. R20/22 Harmful by inhalation and if swallowed. R21/22 Harmful in contact with skin and if swallowed. R22 Harmful if swallowed. R34 Causes burns. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62 Possible risk of impaired fertility. R63 Possible risk of harm to the unborn child.

## NITOSEAL PU12 CURING AGENT

### Hazard statements in full

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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.

## SAFETY DATA SHEET

### NITOSEAL PU12 ACCELERATOR

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

##### 1.1. Product identifier

**Product name** NITOSEAL PU12 ACCELERATOR  
**Product number** 1986020UK9

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

**Identified uses** Accelerator for two-part isocyanate based system.

##### 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** Eye Dam. 1 - H318 Skin Sens. 1 - H317  
**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xi;R41. R43.

**Human health** May cause skin sensitisation or allergic reactions in sensitive individuals. May cause serious eye damage.

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

##### 2.2. Label elements

###### Pictogram



## NITOSEAL PU12 ACCELERATOR

<b>Signal word</b>	Danger
<b>Hazard statements</b>	H318 Causes serious eye damage. H317 May cause an allergic skin reaction.
<b>Precautionary statements</b>	P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with national regulations.
<b>Contains</b>	ORTHO TOLYL BIGUANIDE
<b>Supplementary precautionary statements</b>	P261 Avoid breathing vapour/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see medical advice on this label). P333+P313 If skin irritation or rash occurs: Get medical advice/attention. 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

<b>ORTHO TOLYL BIGUANIDE</b>	<b>10-30%</b>
CAS number: 93-69-6	EC number: 202-268-6
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Eye Dam. 1 - H318	Xi;R41. R43.
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	

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>	Get medical attention if any discomfort continues.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
<b>Ingestion</b>	Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Skin contact</b>	May cause sensitization by skin contact.

## NITOSEAL PU12 ACCELERATOR

**Eye contact** May cause severe eye 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**

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog. Dry chemicals, sand, dolomite etc.

**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** Closed containers can burst violently when heated, due to excess pressure build-up.

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### **5.3. Advice for firefighters**

**Protective actions during firefighting** Keep up-wind to avoid fumes. Containers close to fire should be removed or cooled with water. Control run-off water by containing and keeping it out of sewers and watercourses.

**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** Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Use suitable respiratory protection if ventilation is inadequate.

### **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** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. DO NOT touch spilled material! Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.4. Reference to other sections**

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Usage precautions** Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product.



## NITOSEAL PU12 ACCELERATOR

### 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. Store away from the following materials: Alkalis. Acids. Oxidising materials.

**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).

#### ORTHO TOLYL BIGUANIDE (CAS: 93-69-6)

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 5.88 Industry - Inhalation; Short term systemic effects: 35.26 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: no threshold derived Industry - Dermal; Short term systemic effects: 55.6
<b>PNEC</b>	- Fresh water, Marine water; 0.15 mg/l

### 8.2. Exposure controls

**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

**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: Full face visor or shield.

**Hand protection** Wear protective gloves made of the following material: Neoprene. Butyl rubber. Nitrile rubber. 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.

**Other skin and body protection** Wear apron or protective clothing in case of contact.

### Hygiene measures

**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn. Organic vapour filter. or Wear a full facepiece respirator fitted with the following cartridge: Wear a supplied-air respirator.

## SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Paste.
<b>Colour</b>	White.
<b>Odour</b>	Slight.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	>200°C @ 1 atm

## NITOSEAL PU12 ACCELERATOR

<b>Flash point</b>	210°C
<b>Evaporation rate</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Vapour pressure</b>	0.005 kPa @ 20°C
<b>Relative density</b>	1.08 @ at 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Auto-ignition temperature</b>	425°C
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Not determined.

### 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 and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not available. Will not polymerise.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Temperatures below 5°C
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### 10.5. Incompatible materials

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

<b>Hazardous decomposition products</b>	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrous gases (NO <sub>x</sub> ). Sulphurous gases (SO <sub>x</sub> ).
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Ingestion</b>	Low order of acute toxicity. May cause irritation of mouth, throat and digestive tract.
<b>Skin contact</b>	Irritating to skin. May cause sensitisation by skin contact.
<b>Eye contact</b>	Risk of serious damage to eyes.
<b>Acute and chronic health hazards</b>	Repeated and prolonged skin contact may lead to skin disorders.
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact

## SECTION 12: Ecological Information

## NITOSEAL PU12 ACCELERATOR

**Ecotoxicity** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

**Toxicity** Not expected to be ecotoxic to fish/daphnia/algae

### Ecological information on ingredients.

#### ORTHO TOLYL BIGUANIDE

**Acute toxicity - fish** LC50, 96 hours, 96 hours: 150 mg/l, Onchorhynchus mykiss (Rainbow trout)

### 12.2. Persistence and degradability

**Persistence and degradability** The product is not expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

**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. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of contents/container in accordance with national regulations.

## 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.

## NITOSEAL PU12 ACCELERATOR

### 14.6. Special precautions for user

Not applicable.

### 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.

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** Health and Safety at Work etc. Act 1974 (as amended).

**EU legislation** 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).

**Guidance** Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**General information** The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 15/06/2015

**Revision** 5

**SDS number** 12964

**Risk phrases in full** R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.

**Hazard statements in full** H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

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.