

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: **NITOSEAL 12 BASE**

Application: Base component of two part sealant.

Company: **Fosroc Limited**

Address: Coleshill Road, Tamworth, Staffordshire. B78 3TL

Telephone: 01827 262222 (Out of Hours) 01827 265279 Fax: 01827 262444

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: polyurethane resin, inorganic fillers, plasticisers.

None of the ingredients of this product are classified as hazardous.

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

No significant hazard.

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention if irritation persists.

Skin: Wash thoroughly with soap and water or suitable skin cleanser as soon as possible.

Inhalation: Remove from exposure.

Ingestion: Obtain medical attention. Do NOT induce vomiting.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog - Do not use water jets.

Special Exposure Hazards: Toxic fumes. Sulphur compounds.

Special Protective Equipment: Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose of as waste.

7: HANDLING AND STORAGE

Handling: Avoid skin and eye contact. Maintain good standards of personal hygiene.

Storage: Keep containers dry and tightly closed.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:- None assigned.

Engineering Control Measures: No specific ventilation requirement noted.

Personal Protective Equipment: Impervious gloves (eg PVC). Safety glasses / Goggles. Change contaminated clothing and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Paste.
Colour:	White
Odour:	Mild.
pH(concentrate):	Not applicable.
Boiling Point/Range (°C):	Not determined.
Flash Point (closed, °C):	>150
Autoflammability (°C):	>420
Explosive Properties (%):	Not known.
Vapour Pressure (kPa at 20°C):	<0.5
Relative Density (at 20°C):	1.54
Water Solubility:	Insoluble.
Fat Solubility:	Not determined.

10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Temperatures (°C) above 60.
Materials to Avoid:	Strong acids. Strong alkalis. Strong oxidising agents.
Hazardous Decomposition Products:	Thermal decomposition:-. Sulphur compounds. Oxides of carbon.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components.
Expected oral LD50, rat > 2g/kg.

Health Effects

On Eyes:	Causes transient irritation.
On Skin:	Unlikely to irritate on brief or occasional exposure.
By Inhalation:	Low volatility makes inhalation unlikely at ambient temperatures.
By Ingestion:	May cause irritation of mouth, throat and digestive tract.
Chronic:	Repeated and prolonged skin contact may lead to skin disorders.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility:	Paste. Insoluble in water.
Persistence and Degradability:	Not readily biodegradable.
Bioaccumulative Potential:	Not known.
Ecotoxicity:	Not expected to be ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose of through an authorised waste contractor to a licensed site. May be reacted with hardener component to give an inert polymeric material.
Used/Contaminated Product:	Dispose of through an authorised waste contractor to a licensed site.
Packaging:	Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

This product is NOT classified as dangerous for transport.

15: REGULATORY INFORMATION

Hazard Label Data:-

This product is NOT classified as dangerous for supply in the UK.

EC Directives: Dangerous Substances Directive, 67/548/EEC and adaptations.
Dangerous Preparations Directive, 88/379/EEC.
Safety Data Sheets Directive, 91/155/EEC.

Statutory Instruments: Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092).
Health & Safety at Work, etc. Act 1974.
Control of Substances Hazardous to Health Regs. 1994 (SI 3246).
Environmental Protection Act 1990.

Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: Occupational skin diseases: health and safety precautions (EH 26).

The above publications are available from HMSO

16: OTHER INFORMATION

Also refer to the Safety Data Sheet(s) for information on other components of this product.

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 the stated application or applications without seeking advice from Fosroc Ltd.

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

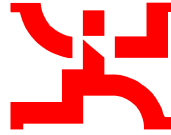
It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from Fosroc Limited.

Date Printed: 05/01/1999

SDS Reference: 124/177/NS12B



SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: **NITOSEAL 12 CURING AGENT**

Application: Curing agent component of two part sealant.

Company: **Fosroc Limited**

Address: Coleshill Road, Tamworth, Staffordshire. B78 3TL

Telephone: 01827 262222 (Out of Hours) 01827 265279 Fax: 01827 262444

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: isophorone diamine, inorganic fillers, benzyl alcohol, o-tolyl biguanide.

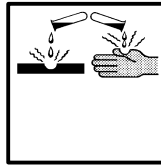
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
isophorone diamine	C, N	R21/22, 34, 43, 52/53	Cas No: 2855-13-2	>10 <25
benzyl alcohol	Xn	R20/22	Cas No: 100-51-6	>10 <25
o-tolyl biguanide	Xi	R36/38	Cas No: - - - -	>2.5 <10

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Causes burns.
Harmful if swallowed.
May cause sensitisation by skin contact.



CORROSIVE

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

Skin: Wash immediately with soap and water or suitable skin cleanser. Remove contaminated clothing immediately.

Inhalation: Remove from exposure.

Ingestion: Obtain medical attention urgently. Do NOT induce vomiting. Beware of aspiration if vomiting occurs.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water.

Special Exposure Hazards: Toxic fumes. Nitrogen compounds.

Special Protective Equipment: Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose of as waste. Clean contaminated area with water.

7: HANDLING AND STORAGE

Handling: Avoid breathing vapours. Maintain good standards of personal hygiene. Avoid skin and eye contact.

Storage: Store only in original container. Never leave a container unsealed.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:- None assigned

Engineering Control Measures: Use only in well ventilated areas. Local exhaust ventilation is recommended.

Personal Protective Equipment: Avoid skin and eye contact. Impervious gloves (eg PVC). Goggles. Plastic apron and overalls. Change contaminated clothing immediately and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Paste.
Colour: Grey.
Odour: Amine. Musty.
pH(concentrate): approx. 12.0
Boiling Point/Range (°C): >200 for volatile components.
Melting Point/Range (°C): Not applicable
Flash Point (closed, °C): 131
Autoflammability (°C): Autoignition temperature above 400°C
Explosive Properties (%): Not applicable.
Oxidising Properties: Not determined.
Vapour Pressure (kPa at 20°C): 0.04
Relative Density (at 20°C): 1.46
Water Solubility: Insoluble.
Partition Coefficient (n-octanol/water): Not determined.

10: STABILITY AND REACTIVITY

Stability: Stable if used as directed

Conditions to Avoid: Temperatures (°C) below 5.

Materials to Avoid: Strong oxidising agents. Strong acids. Strong alkalis.

Hazardous Decomposition Products: Thermal decomposition:- Carbon monoxide. Nitrogen compounds in some fire circumstances, hydrogen cyanide.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components:

Oral LD50, rat: 3100mg/kg

Dermal LD50, rat/rabbit: >2000mg/kg.

Classified as a skin sensitiser.

Health Effects

On Eyes: Causes irreversible damage to eye tissue if not removed promptly.

On Skin: Corrosive - causes burns. May cause sensitisation.

By Inhalation: May cause respiratory irritation.

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

Chronic: Repeated or prolonged skin contact will result in severe irritation leading to burns.

12: ECOLOGICAL INFORMATION

Environmental Assessment: When used and disposed of as intended, no adverse environmental effects are foreseen.

Mobility: Paste. Insoluble in water.

Persistence and Degradability: Expected to be not readily biodegradable.

Bioaccumulative Potential: Not known.

Ecotoxicity: Not expected to be ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product: Classified as a special waste. May be reacted with base component to give an inert polymeric material.

Used/Contaminated Product: Classified as a special waste. Dispose of through an authorised waste contractor to a licensed site.

Packaging: Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

UN Number: 1760

IMO: Class: 8 Packing Group: III Marine Pollutant: No

IATA/ICAO: Class: 8 Packing Group: III

ADR: Class: 8 Item: 66 (c)

Transport Name: Corrosive liquids, nos (isophorone diamine mixture)

Hazchem/Kemler Code: 2X / 80

15: REGULATORY INFORMATION

Hazard Label Data:-

Named Ingredients: isophorone diamine

UN Number: 1760

Symbol(s): C

Risk Phrases: Causes burns.
Harmful if swallowed.
May cause sensitisation by skin contact.

Safety Phrases: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face protection.
After contact with skin, wash immediately with plenty of soap and water.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EC Directives: Dangerous Substances Directive, 67/548/EEC and adaptations.
Dangerous Preparations Directive, 88/379/EEC.
Safety Data Sheets Directive, 91/155/EEC.

Statutory Instruments: Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092).
Control of Substances Hazardous to Health Regs. 1994 (SI 3246).
Health & Safety at Work, etc. Act 1974.
Environmental Protection (Duty of Care) Regs. 1991 (SI 2839).
The Special Waste Regulations 1996 (SI 972).

Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: Occupational skin diseases: health and safety precautions (EH 26).

The above publications are available from HMSO

16: OTHER INFORMATION

Also refer to the Safety Data Sheet(s) for information on other components of this product.

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 the stated application or applications without seeking advice from Fosroc Ltd.

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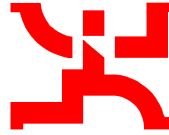
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Date Printed: 05/01/1999

SDS Reference: 124/170/NS12CA



SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: **NITOSEAL 12 ACCELERATOR**

Application: Accelerator for Nitoseal 12.

Company: **Fosroc Limited**

Address: Coleshill Road, Tamworth, Staffordshire. B78 3TL

Telephone: 01827 262222 (Out of Hours) 01827 265279 Fax: 01827 262444

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: plasticisers, o-tolyl biguanide.

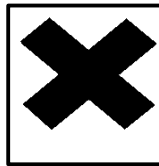
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
o-tolyl biguanide	Xi	R36/38	Cas No: - - - -	>10 <25

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Irritating to eyes and skin.



IRRITANT

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

Skin: Wash immediately with soap and water or suitable skin cleanser. Remove contaminated clothing immediately.

Inhalation: Remove from exposure.

Ingestion: Obtain medical attention urgently. Do NOT induce vomiting.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water.

Special Exposure Hazards: Toxic fumes. Sulphur compounds.

Special Protective Equipment: Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means. Gather into containers. Dispose of as waste. Clean contaminated area with water.

7: HANDLING AND STORAGE

Handling: Avoid breathing vapours. Maintain good standards of personal hygiene. Avoid skin and eye contact.

Storage: Store in cool, dry area. Store only in original container.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:-	None assigned
Engineering Control Measures:	Use only in well ventilated areas.
Personal Protective Equipment:	Avoid skin and eye contact. Impervious gloves (eg PVC). Goggles. Plastic apron and overalls. Change contaminated clothing immediately and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Viscous liquid / Paste.
Colour:	White.
Odour:	Slight/faint.
pH(concentrate):	Not applicable (non-aqueous).
Boiling Point/Range (°C):	>200.
Melting Point/Range (°C):	Not applicable
Flash Point (closed, °C):	210
Autoflammability (°C):	Autoignition temperature: 425.
Explosive Properties (%):	Not applicable.
Oxidising Properties:	Not determined.
Vapour Pressure (kPa at 20°C):	0.005
Relative Density (at 20°C):	1.08
Water Solubility:	Insoluble.
Partition Coefficient (n-octanol/water):	Not determined.

10: STABILITY AND REACTIVITY

Stability:	Stable if used as directed
Conditions to Avoid:	Temperatures (°C) below 5.
Materials to Avoid:	Strong oxidising agents. Strong acids. Strong alkalis.
Hazardous Decomposition Products:	Thermal decomposition:- Oxides of carbon. Sulphur compounds.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components:
Oral LD50, rat: 5000mg/kg.

Health Effects

On Eyes:	May cause transient irritation.
On Skin:	Irritation.
By Inhalation:	Low volatility makes inhalation unlikely at ambient temperatures.
By Ingestion:	Low order of acute toxicity. May cause irritation of mouth, throat and digestive tract.
Chronic:	Repeated and prolonged skin contact may lead to skin disorders.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility:	Viscous liquid. Insoluble in water.
Persistence and Degradability:	Expected to be not readily biodegradable.
Bioaccumulative Potential:	Not known.
Ecotoxicity:	Not expected to be ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose of through an authorised waste contractor to a licensed site.

Used/Contaminated Product: As for Unused product.

Packaging: Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

This product is NOT classified as dangerous for transport.

15: REGULATORY INFORMATION

Hazard Label Data:-

Named Ingredients: o-tolyl biguanide

Symbol(s): Xi

Risk Phrases: Irritating to eyes and skin

Safety Phrases: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable gloves and eye/face protection.

EC Directives: Dangerous Substances Directive, 67/548/EEC and adaptations.
Dangerous Preparations Directive, 88/379/EEC.
Safety Data Sheets Directive, 91/155/EEC.

Statutory Instruments: Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092).
Control of Substances Hazardous to Health Regs. 1994 (SI 3246).
Health & Safety at Work, etc. Act 1974.
Environmental Protection (Duty of Care) Regs. 1991 (SI 2839).

Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: Occupational skin diseases: health and safety precautions (EH 26).

The above publications are available from HMSO

16: OTHER INFORMATION

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Further copies of this Safety Data Sheet may be obtained from Fosroc Limited.

Date Printed: 18/01/1999

SDS Reference: M012/AC1/NS12A