



# SAFETY DATA SHEET

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

Product Name: **CONBEXTRA EPR BASE**

Application: Base component of three part epoxy grout system.

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: epoxy resin.

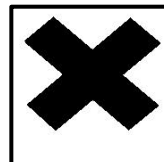
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
epoxy resin (number average molecular weight <700)	Xi, N	R36/38, 43, 51/53	Cas No: 25068-38-6	>50
2-ethylhexyl glycidylether	Xi, N	R36/38, 43, 51/53	Cas No: 2461-15-6 Cas No: Cas No: Cas No:	>10 <25

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

R36/38: Irritating to eyes and skin.  
R43: May cause sensitisation by skin contact.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment



IRRITANT



Dangerous for the Environment



## 4: FIRST AID MEASURES

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

Skin: Wash thoroughly with soap and water or suitable skin cleanser as soon as possible. Obtain medical advice if skin disorders develop.

Inhalation: Remove from exposure.

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

## 5: FIRE FIGHTING MEASURES

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

Special Exposure Hazards: Toxic fumes. For further information see Section 10.

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.

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## 7: HANDLING AND STORAGE

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Handling: Maintain good standards of personal hygiene. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation.

Storage: Keep containers dry and tightly closed.

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## 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Occupational Exposure Limits:- None assigned.

Substance	8 Hour TWA	STEL	Source/Other Information
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Engineering Control Measures: No specific ventilation requirement noted.

Personal Protective Equipment: Impervious gloves (eg PVC). Safety glasses (Conforming to EN 166) / Goggles (Conforming to EN 166). Change contaminated clothing and clean before re-use.

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## 9: PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid.

Colour: Straw.

Odour: Mild.

pH(concentrate):

pH(working dilution):

Boiling Point/Range (°C): > 200°C

Melting Point/Range (°C):

Flash Point (closed, °C): >200°C

Autoflammability (°C): Not determined.

Viscosity (at 20°C):

Explosive Properties (%): Not known.

Oxidising Properties:

Vapour Pressure (kPa at 20°C): 0.001

Relative Density (at 20°C): 1.14

Water Solubility: Insoluble.

Fat Solubility: Not determined.

Partition Coefficient (n-octanol/water):

Other data:

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## 10: STABILITY AND REACTIVITY

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Stability: Stable: reacts with compounds containing amino, hydroxyl or carboxyl groups to give stable, cross linked materials.

Conditions to Avoid: None known.

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

Hazardous Decomposition Products: Thermal decomposition:- Oxides of carbon. Irritant fumes.

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## 11: TOXICOLOGICAL INFORMATION

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

Expected oral LD50, rat > 2g/kg.

Classified as a skin sensitiser.

### Health Effects

On Eyes: Causes transient irritation.

On Skin: Irritation. May cause sensitisation.

By Inhalation: May cause respiratory irritation.

By Ingestion: May cause irritation of mouth, throat and digestive tract.

Chronic: Repeated and prolonged skin contact may lead to skin disorders.

Other:

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## 12: ECOLOGICAL INFORMATION

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

Mobility: Mobile liquid. Insoluble in water

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: Has the potential to bioaccumulate.

Ecotoxicity: Ecotoxic to fish/daphnia/algae.

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## 13: DISPOSAL CONSIDERATIONS

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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.

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## 14: TRANSPORT INFORMATION

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UN Number: 3082

IMO: Class: 9 Packing Group: III Marine Pollutant:

IATA/ICAO: Class: Packing Group: III

ADR: Class: 9 Item: 11(c)

Transport Name: Environmentally hazardous substance, liquid, nos. (Epoxy Resin)

Hazchem/Kemler Code: 90

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## 15: REGULATORY INFORMATION

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### Hazard Label Data:-

Named Ingredients: epoxy resin (number average molecular weight <700).

UN Number: 3082

Symbol(s): Xi: Irritant, N: Dangerous for the Environment

Risk Phrases: R36/38: Irritating to eyes and skin  
R43: May cause sensitisation by skin contact  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28: After contact with skin, wash immediately with plenty of soap and water.  
S37/39: Wear suitable gloves and eye/face protection.  
S0062: Contains epoxy constituents. See information supplied by the manufacturer.

- EC Directives:** Dangerous Substances Directive, 67/548/EEC and adaptations.  
Dangerous Preparations Directive, 1999/45/EC.  
Safety Data Sheets Directive, 91/155/EEC.  
Hazardous Waste Directive, 91/689/EEC.
- Statutory Instruments:** Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092).  
Control of Substances Hazardous to Health Regs. 1999 (SI 3246).  
Health & Safety at Work, etc. Act 1974.  
Environmental Protection Act 1990.
- Codes of Practice:** Waste Management. The Duty of Care.  
Operational Provisions of the Road Traffic (Carriage of Dangerous Substances in packages etc.) Regs. 1986 (COP 17).
- Guidance Notes:** Occupational skin diseases: health and safety precautions (EH 26).  
Storage of packaged dangerous substances [HS(G)71].

The above publications are available from HMSO

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## 16: OTHER INFORMATION

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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: 08/01/2004

SDS Reference: 3964/TAM1/01

### REVISION

Supersedes issue no: 01 dated: 12.08.96

Sections updated/revised - no(s): 1



# SAFETY DATA SHEET

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

Product Name: **CONBEXTRA EPR HARDENER**

Application: Hardener component of three part epoxy grout system.

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: trimethylhexamethylene diamine.

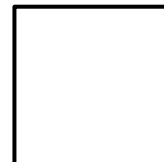
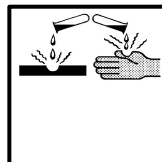
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
trimethylhexamethylene diamine	C;	R22, 34, 43, 52/53	Cas No: 25620-58-0	>50
			Cas No:	
			Cas No:	
			Cas No:	
			Cas No:	

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

R34: Causes burns.  
R21/22: Harmful in contact with skin and if swallowed.  
R43: May cause sensitisation by skin contact.  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment



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: Wash out mouth with water. Do NOT induce vomiting. Obtain medical attention urgently. Beware of aspiration if vomiting occurs.

## 5: FIRE FIGHTING MEASURES

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

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.

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## 7: HANDLING AND STORAGE

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Handling: Ensure adequate ventilation. Avoid breathing vapours. Maintain good standards of personal hygiene.  
Avoid skin and eye contact.  
Storage: Store in cool, dry area. Protect from frost. Store only in original container. Never leave a container unsealed.

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## 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Occupational Exposure Limits:- None assigned.  
Substance                                      8 Hour TWA                      STEL                                      Source/Other Information

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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 (Conforming to EN 166). Change contaminated clothing immediately and clean before re-use.

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## 9: PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid.  
Colour: Clear.  
Odour: Sharp.  
pH(concentrate): 11 @ 1:1 mixture  
pH(working dilution):  
Boiling Point/Range (°C): >230°C  
Melting Point/Range (°C):  
Flash Point (closed, °C): 110°C  
Autoflammability (°C): 350°C  
Viscosity (at 20°C):  
Explosive Properties (%): Lower explosive limit (LEL): 1.2 vol.%  
Oxidising Properties:  
Vapour Pressure (kPa at 20°C): 0.002  
Relative Density (at 20°C): 0.89  
Water Solubility: Miscible  
Fat Solubility:  
Partition Coefficient (n-octanol/water):  
Other data:

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## 10: STABILITY AND REACTIVITY

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Stability: Stable.  
Conditions to Avoid: None known.  
Materials to Avoid: Strong oxidising agents. Strong acids.  
Hazardous Decomposition Products: Thermal decomposition:- Oxides of carbon. Nitrogen compounds, in some fire circumstances, hydrogen cyanide.

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## 11: TOXICOLOGICAL INFORMATION

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The following toxicological assessment is based on a knowledge of the toxicity of the product's components:  
Oral LD50, rat 910mg/kg

### Health Effects

On Eyes: Severe irritation. Causes irreversible damage to eye tissue if not removed promptly.  
On Skin: Corrosive - causes burns. May cause sensitisation.  
By Inhalation: Irritating to respiratory system.  
By Ingestion: Corrosive - causes severe damage to mouth, throat and digestive tract.  
Chronic: Repeated or prolonged skin contact will result in severe irritation leading to burns.  
Other:

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## 12: ECOLOGICAL INFORMATION

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

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## 13: DISPOSAL CONSIDERATIONS

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Disposal must be in accordance with local and national legislation.

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

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## 14: TRANSPORT INFORMATION

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UN Number: 2327  
IMO: Class: 8 Packing Group: III Marine Pollutant:  
IATA/ICAO: Class: 8 Packing Group: III  
ADR: Class: 8 Item: 53 (c)  
Transport Name: Trimethylhexamethylenediamines  
Hazchem/Kemler Code: 2X / 80

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## 15: REGULATORY INFORMATION

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### Hazard Label Data:-

Named Ingredients: trimethylhexamethylene diamine  
UN Number: 2327  
Symbol(s): C: Corrosive  
Risk Phrases: R34: Causes burns.  
R21/22: Harmful in contact with skin and if swallowed.  
R43: May cause sensitisation by skin contact.  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Safety Phrases:** S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S45: 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, 1999/45/EC.  
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. 1999 (SI 3246).  
Health & Safety at Work, etc. Act 1974.  
Environmental Protection Act 1990.  
The Special Waste Regulations 1996 (SI 972).

**Codes of Practice:** Waste Management. The Duty of Care.  
Classification and labelling of dangerous substances for carriage by road in tankers, tank containers & packages (L14).

**Guidance Notes:** Occupational skin diseases: health and safety precautions (EH 26).  
Storage of packaged dangerous substances [HS(G)71].

The above publications are available from HMSO

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## 16: OTHER INFORMATION

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

Date Printed: 08/01/2004

SDS Reference: 3965/TAM1/01

### REVISION

Supersedes issue no: 01 dated: 12.08.96

Sections updated/revised - no(s): 1 3,15



# SAFETY DATA SHEET

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

Product Name: **CONBEXTRA EPR FILLER**

Application: Filler component of three part epoxy grout system.

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: silica flour, silica sands.

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

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
			Cas No:	
			Cas No:	
			Cas No:	
			Cas No:	
			Cas No:	

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

Long term inhalation may cause health problems.



## 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. If feeling unwell obtain medical attention.

Ingestion: Wash out mouth with water. Do NOT induce vomiting.

## 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: None, not flammable.

Special Exposure Hazards: None.

Special Protective Equipment: None.

## 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: Gather into containers. Avoid the creation of dust in atmosphere.

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## 7: HANDLING AND STORAGE

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Handling: Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.

Storage: Store in cool, dry area.

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## 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Occupational Exposure Limits:-

Substance	8 Hour TWA	STEL	Source/Other Information
Silica, crystalline respirable dust	0.3 mgm <sup>-3</sup> (MEL)	-----	EH40
silica, amorphous: total inhalable dust respirable dust	6 mgm <sup>-3</sup> 2.4 mgm <sup>-3</sup>	-----	EH40

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Engineering Control Measures: Use only in well ventilated areas. Atmospheric levels of dust must be maintained within the Occupational Exposure Limit.

Personal Protective Equipment: Approved dust mask, conforming to EN 149. Nominal Protection Factor (NPF) to be determined.. Avoid skin and eye contact. Impervious gloves (eg PVC). Safety glasses (Conforming to EN 166).

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## 9: PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Powder.

Colour: Off-white.

Odour: Odourless

pH(concentrate): Not applicable.

pH(working dilution):

Boiling Point/Range (°C): Not applicable.

Melting Point/Range (°C): Not applicable.

Flash Point (closed, °C): None.

Autoflammability (°C): Not applicable.

Viscosity (at 20°C):

Explosive Properties (%): Can form explosive dust cloud.

Oxidising Properties: Not determined.

Vapour Pressure (kPa at 20°C):

Relative Density (at 20°C): 2.02

Water Solubility: Insoluble.

Fat Solubility:

Partition Coefficient (n-octanol/water):

Other data:

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## 10: STABILITY AND REACTIVITY

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Stability: Stable.

Conditions to Avoid: None known.

Materials to Avoid: Strong oxidising agents.

Hazardous Decomposition Products: None.

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## 11: TOXICOLOGICAL INFORMATION

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### Health Effects

- On Eyes: Irritating and may injure eye tissue if not removed promptly.
- On Skin: Unlikely to irritate on brief or occasional exposure.
- By Inhalation: May cause respiratory irritation.
- By Ingestion: Low order of acute toxicity.
- Chronic: Respirable dust, if inhaled over a prolonged period, constitute a health hazard. Inhalation of particles of free silica, in the respirable range, can give rise to fibrosis of the lungs.
- Other:

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## 12: ECOLOGICAL INFORMATION

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

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## 13: DISPOSAL CONSIDERATIONS

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- Disposal must be in accordance with local and national legislation.
- Unused Product: Dispose of in an approved manner.
- Used/Contaminated Product: Dispose of through an authorised waste contractor to a licensed site.
- Packaging: The method of disposal must be acceptable to the local authority.

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## 14: TRANSPORT INFORMATION

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- This product is NOT classified as dangerous for transport.
- UN Number:
- |            |        |                |                   |
|------------|--------|----------------|-------------------|
| IMO:       | Class: | Packing Group: | Marine Pollutant: |
| IATA/ICAO: | Class: | Packing Group: |                   |
| ADR:       | Class: | Item:          |                   |
- Transport Name:
- Hazchem/Kemler Code:

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## 15: REGULATORY INFORMATION

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### Hazard Label Data:-

- This product is NOT classified as dangerous for supply in the UK.
- Named Ingredients:
- UN Number:
- Symbol(s):
- Risk Phrases:
- Safety Phrases: S22: Do not breathe dust.  
S37/39: Wear suitable gloves and eye/face protection.
- EC Directives: Dangerous Substances Directive, 67/548/EEC and adaptations.  
Dangerous Preparations Directive, 1999/45/EC.  
Safety Data Sheets Directive, 91/155/EEC.
- Statutory Instruments: Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092).  
Environmental Protection (Duty of Care) Regs. 1991 (SI 2839).
- Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: Occupational exposure limits (EH 40).  
Dust in the workplace: general principles of protection. (EH44).

The above publications are available from HMSO

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## 16: OTHER INFORMATION

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

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

Date Printed: 14/09/2004

SDS Reference: 3966/TAM1/02

### REVISION

Supersedes issue no: 01 dated: 15.08.97

Sections updated/revised - no(s): 1 8