

SAFETY DATA SHEET

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

Product Name: **NITOCOTE EP403 BASE**

Application: Base component of two part epoxy coating.

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, inorganic fillers, pigment.

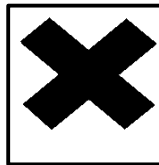
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
epoxy resin (number average molecular weight <700)	Xi, N	R36/38, 43, 51/53	Cas No: 25068-38-6	>25 <50

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.
May cause sensitisation by skin contact



IRRITANT

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. 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.

7: HANDLING AND STORAGE

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

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. Plastic apron.
Change contaminated clothing and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Viscous liquid.
Colour: Grey/off white
Odour: Slight/faint.
pH(concentrate): Not applicable.
Boiling Point/Range (°C): Not determined.
Flash Point (closed, °C): >150
Autoflammability (°C): Not determined.
Explosive Properties (%): Not known.
Vapour Pressure (kPa at 20°C): <0.4
Relative Density (at 20°C): 1.90
Water Solubility: Insoluble.
Fat Solubility: Not determined.

10: STABILITY AND REACTIVITY

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:- Carbon monoxide. Irritant fumes.

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.

Classified as an eye and skin irritant.

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.

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: Not readily biodegradable.

Bioaccumulative Potential: Has the potential to bioaccumulate.

Ecotoxicity: 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: 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: 3082

IMO: Class: 9 Packing Group: III

ADR: Class: 9 Item: 11(c)

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

15: REGULATORY INFORMATION

Hazard Label Data:-

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

Symbol(s): Xi

Risk Phrases: Irritating to eyes and skin.
May cause sensitisation by skin contact.

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

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).
Storage of packaged dangerous substances [HS(G)71].

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: 1727/2 EP403 BAS

REVISION

Supersedes issue no: 01 dated: 15.04.94

Sections updated/ revised - no(s): 1, 12, 14.



SAFETY DATA SHEET

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

Product Name: **NITOCOTE EP403 HARDENER**

Application: Hardener component of two part epoxy coating.

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: mixture of aliphatic and aromatic amines.

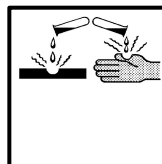
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
polyoxyalkyleneamine	C	R34, 21/22, 36	Cas No: 9046-10-0	>10 <25
p-tertiarybutyl phenol	Xi	R36	Cas No: 98-54-4	>10 <25
1,3-benzenedimethylamine	C	R35, 20/22	Cas No: 1477-55-0	>10 <25
nonyl phenol	C	R34	Cas No: 25154-52-3	>10 <25
trimethylhexamethylene diamine	C; N	R22, 34, 43, 51/53	Cas No: 25620-58-0	>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 severe burns.
Harmful in contact with skin and 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. Obtain medical advice if skin disorders develop. Remove contaminated clothing immediately.

Inhalation: Remove from exposure, rest and keep warm and obtain medical attention urgently.

Ingestion: Wash out mouth with water and give sips of cold water to soothe the affected parts. Do NOT induce vomiting. Obtain medical attention urgently.

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.

7: HANDLING AND STORAGE

Handling: Maintain good standards of personal hygiene. Ensure adequate ventilation. Do not eat, drink or smoke whilst using this product. Do not use near sources of ignition. Avoid breathing vapours. Avoid skin and eye contact. Never transfer to an unlabelled container.

Storage: Store in cool, dry area. Keep away from foodstuffs and food containers. Store only in original container.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:- None assigned.

Source/Other Information

EH 40

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

Personal Protective Equipment: In case of insufficient ventilation wear suitable respiratory equipment. Avoid skin and eye contact. Impervious gloves (eg PVC). Goggles. Change contaminated clothing immediately and clean before re-use. A high standard of personal hygiene is essential.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.
Colour: Brown.
Odour: Amine.
pH(concentrate): Not applicable (non-aqueous).
Boiling Point/Range (°C): >200
Flash Point (closed, °C): 110
Autoflammability (°C): Not determined.
Oxidising Properties: Not determined.
Vapour Pressure (kPa at 20°C): 0.01
Relative Density (at 20°C): 1.03
Water Solubility: Insoluble

10: STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Any source of ignition.

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

Hazardous Decomposition Products: Thermal decomposition:- Oxides of carbon. 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 >1630 mg/kg

Health Effects

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

On Skin: Harmful by absorption through the skin. Corrosive - causes severe burns. May cause sensitisation.

By Inhalation: May cause respiratory irritation. High concentrations of vapours may cause headaches, dizziness and central nervous system depression..

By Ingestion: Harmful if swallowed. Corrosive - causes severe damage to mouth, throat and digestive tract. May cause nausea, vomiting and diarrhoea.

Other: p-tertiarybutyl phenol can cause a cosmetic effect known as "occupational vitiligo" or leucoderma. It is believed that repeated contact with this substance can lead to this depigmentation of the skin in sensitive individuals.

12: ECOLOGICAL INFORMATION

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: Has the potential to bioaccumulate.

Ecotoxicity: 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. 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

UN Number: 2735

IMO: Class: 8 Packing Group: III Marine Pollutant: Yes

IATA/ICAO: Class: 8 Packing Group: III

ADR: Class: 8 Item: 53(c)

Transport Name: Amines, liquid, corrosive, nos (1,3-benzenedimethylamine/trimethylhexamethylene diamine / nonyl phenol mixture)

Hazchem/Kemler Code: 2W / 80

15: REGULATORY INFORMATION

Hazard Label Data:-

Named Ingredients: 1,3-benzenedimethylamine
trimethylhexamethylene diamine
nonyl phenol

UN Number: 2735

Symbol(s): C

Risk Phrases: Causes severe burns.
Harmful in contact with skin and if swallowed.
May cause sensitisation by skin contact

Safety Phrases: Avoid contact with skin and eyes.
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.
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.
Carcinogens Directive, 90/394/EEC.

Statutory Instruments: Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1999 (SI 1092).
Health & Safety at Work, etc. Act 1974.
Control of Substances Hazardous to Health Regs. 1999 (SI 437).
The Special Waste Regulations 1996 (SI 972).

Codes of Practice: Control of substances hazardous to health & control of carcinogenic substances (L5).
Waste Management. The Duty of Care.

Guidance Notes: Occupational skin diseases: health and safety precautions (EH 26).
Occupational exposure limits (EH 40).

The above publications are available from HMSO

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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.

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

Date Printed: 08/11/2000

SDS Reference: 33442/HIM/2

REVISION

Supersedes issue no: 02 dated: 13.08.96

Sections updated/revised - no(s): 1 2, 3, 8, 11, 14, 15.