



# SAFETY DATA SHEET

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

Product Name: **NITOCOTE EP405 BASE BLUE & WHITE**

Application: Base component of high build epoxy coating 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, aromatic glycidylether, inorganic fillers, pigment.

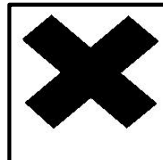
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
epoxy resin (number average molecular weight <700)	Xi, N	R36/38, 43, 51/53	Cas No: 25068-38-6	>25 <50
p-tert. butylphenyl glycidylether	Xi, N	R36/38, 43, 51/53	Cas No: 3101-60-8 Cas No: Cas No: Cas No:	>10 <25

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: Viscous liquid.

Colour: Blue or White

Odour: Mild.

pH(concentrate):

pH(working dilution): Not applicable (non-aqueous).

Boiling Point/Range (°C): > 200

Melting Point/Range (°C):

Flash Point (closed, °C): >150

Autoflammability (°C): Not determined.

Viscosity (at 20°C):

Explosive Properties (%): Not known.

Oxidising Properties:

Vapour Pressure (kPa at 20°C): 0.1

Relative Density (at 20°C): 1.90

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: 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: Viscous 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:

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## 15: REGULATORY INFORMATION

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### Hazard Label Data:-

Named Ingredients: epoxy resin (number average molecular weight <700)  
p-tert. butylphenyl glycidylether

UN Number: 3082

Symbol(s): Xi, N

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, 88/379/EEC.  
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.
- 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.

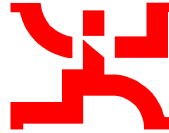
Date Printed: 26/06/2002

SDS Reference: 1566/1 NCEP405BB

### REVISION

Supersedes issue no: 02 dated: 13.08.96

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 EP405 HARDENER**

Application: Hardener component of high build epoxy coating 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: modified cycloaliphatic amine.

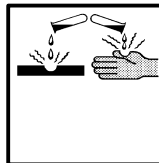
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
p-tertiarybutyl phenol	Xi	R36	Cas No: 98-54-4	>25 <50
1,3-benzenedimethylamine	C	R35, 20/22	Cas No: 1477-55-0	>10 <25
trimethylhexamethylene diamine	C; N	R22, 34, 43, 51/53	Cas No: 25620-58-0	>10 <25
nonyl phenol	C	R34	Cas No: 25154-52-3	>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

Harmful if swallowed.  
Causes severe burns.  
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, rest and keep warm and obtain medical attention urgently.

**Ingestion:** Wash out mouth with water. 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, in some fire circumstances, hydrogen cyanide.

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

Storage: Keep away from foodstuffs and food containers. Never leave a container unsealed.

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## 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Occupational Exposure Limits:- None assigned

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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.

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## 9: PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid.

Colour: Yellow - Brown.

Odour: Amine

Melting Point/Range (°C): Not applicable

Flash Point (closed, °C): ~130

Oxidising Properties: Not determined.

Vapour Pressure (kPa at 20°C): 0.02

Relative Density (at 20°C): 1.0

Water Solubility: Miscible

Partition Coefficient (n-octanol/water): Not determined.

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## 10: STABILITY AND REACTIVITY

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Stability: Stable if used as directed.

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

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 1300 mg/kg

### 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: Corrosive - causes severe damage to mouth, throat and digestive tract.

Chronic: Prolonged skin contact can result in chemical burns.

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.

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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. Partially soluble in water.

Persistence and Degradability: Expected to be not readily biodegradable.

Bioaccumulative Potential: Not determined.

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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: 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.

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### 14: TRANSPORT INFORMATION

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UN Number: 1760

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

IATA/ICAO: Class: 8 Packing Group: III

ADR: Class: 8 Item: 66 (c)

Transport Name: Corrosive liquids, nos. (1,3-benzenedimethylamine/trimethylhexamethylene diamine / nonyl phenol mixture)

Hazchem/Kemler Code: 2X / 80

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### 15: REGULATORY INFORMATION

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#### Hazard Label Data:-

Named Ingredients: trimethylhexamethylene diamine  
1,3-benzenedimethylamine

UN Number: 1760

Symbol(s): C

Risk Phrases: Causes severe burns.  
Harmful 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.

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

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

Date Printed: 05/01/1999

SDS Reference: 1567/1 NCEP405H

## REVISION

Supersedes issue no: 02 dated: 30.05.95

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