



SAFETY DATA SHEET

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

Product Name: **FOSROC PRIMER 19 PART A**

Application: Base component of two part epoxy polyurethane primer.

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, hydrocarbon solvent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
propylene glycol methyl ether acetate	none	R10	Cas No: 108-65-6	>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

Flammable.

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.

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

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 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. Immediately issue NO SMOKING and NO NAKED FLAMES warnings.

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. Use only in well ventilated areas. Avoid breathing vapours. Avoid skin and eye contact. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Store in cool, dry area. Store away from sources of ignition.

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:	In case of insufficient ventilation wear suitable respiratory equipment. Avoid skin and eye contact. Impervious gloves (eg PVC). Safety glasses / Goggles. Change contaminated clothing and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Colour:	Straw.
Odour:	Ethereal.
pH(concentrate):	Not applicable (non-aqueous).
Boiling Point/Range (°C):	150
Flash Point (closed, °C):	36
Autoflammability (°C):	Not determined
Explosive Properties (%):	Lower explosive limit (LEL): 1.5% v/v. Upper explosive limit (UEL): 7.0% v/v
Vapour Pressure (kPa at 20°C):	0.5
Relative Density (at 20°C):	1.03
Water Solubility:	Miscible
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. Contains volatile solvent.
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. 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.

Health Effects

On Eyes:	Causes transient irritation.
On Skin:	May cause transient irritation.
By Inhalation:	Vapours may cause headaches, dizziness and central nervous system depression.
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. Contains volatile organic compounds.
Mobility:	Mobile liquid. Miscible in water.
Persistence and Degradability:	Expected to be not readily biodegradable.
Bioaccumulative Potential:	Not determined.
Ecotoxicity:	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:	Contains flammable residues, do not crush or incinerate. Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

UN Number: 1866
IMO: Class: 3.3 Packing Group: III Marine Pollutant: No
IATA/ICAO: Class: 3 Packing Group: III
ADR: Class: 3 Item: 31(c)
Transport Name: Resin Solution
Hazchem/Kemler Code: 3WE / 30

15: REGULATORY INFORMATION

Hazard Label Data:-

UN Number: 1866
Symbol(s): None
Risk Phrases: Flammable.
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.
Use only in well ventilated areas.
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 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.

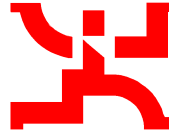
It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

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: 3938/FTC/1



SAFETY DATA SHEET

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

Product Name: **FOSROC PRIMER 19 PART B**

Application: Curing agent for two part epoxy polyurethane primer.

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: diphenylmethane-4-4'-diisocyanate (mixture of isomers and polymers), n-butyl acetate.

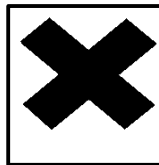
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
diphenylmethane-4,4'-diisocyanate (isomers)	Xn	R20, 36/37/38, 42	Cas No: 101-68-8	>50
n-butyl acetate	none	R10	Cas No: 123-86-4	>25 <50

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

Flammable.
Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation



HARMFUL

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.

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

Ingestion: Wash out mouth with water. Obtain medical attention urgently.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder or foam.

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. Immediately issue NO SMOKING and NO NAKED FLAMES warnings.

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. Clean contaminated area with water.

7: HANDLING AND STORAGE

Handling: Maintain good standards of personal hygiene. Use only in well ventilated areas. Avoid breathing vapours. Avoid skin and eye contact. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Store away from sources of ignition. Keep containers dry and tightly closed. Store between (°C) 5 - 25. Store in conformity with local fire regulations.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:-

Substance	8 Hour TWA	STEL	Source/Other Information
isocyanates, all (as NCO)	0.02 mgm ⁻³ (MEL)	0.07 mgm ⁻³ (MEL)	EH40
n-butyl acetate	724 mgm ⁻³	966 mgm ⁻³	EH40

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). Safety glasses / Goggles.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Viscous liquid.

Colour: Brown.

Odour: Musty. Sharp.

pH(concentrate): Not applicable.

Boiling Point/Range (°C): 126 n-butyl acetate

Flash Point (closed, °C): 29

Autoflammability (°C): Autoignition temperature: >350

Explosive Properties (%): Lower explosive limit (LEL): 3% Upper explosive limit (UEL): 10.4%

Vapour Pressure (kPa at 20°C): 1.3

Relative Density (at 20°C): 1.2

Water Solubility: Insoluble

Other data: Evaporation rate (n-butyl acetate = 1): 1

10: STABILITY AND REACTIVITY

Stability: Hazardous polymerisation will not occur unless exposed to amines, alcohols, water, acids or heat. Contains volatile solvent.

Conditions to Avoid: Any source of ignition. Contamination with water. Temperatures (°C) above 50°C.

Materials to Avoid: Contamination by water. Alcohols. Amines

Hazardous Decomposition Products: Thermal decomposition:- Oxides of carbon, in some fire circumstances, hydrogen cyanide. Nitrogen compounds.

11: TOXICOLOGICAL INFORMATION

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

Oral LD50, rat >15g/kg

Health Effects

On Eyes: Severe irritation

On Skin: Irritation.

By Inhalation: Harmful by inhalation. Concentration-dependent risk of irritating effect on eyes, nose, throat and respiratory tract. Delayed appearance of the complaints and development of hyper-sensitivity (difficult breathing, coughing asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations

By Ingestion: May cause nausea, vomiting and diarrhoea.

Chronic: Repeated and prolonged skin contact may lead to skin disorders.
Other: Persons who suffer from hypersensitivity of the respiratory tract (e.g. asthmatics and those who suffer from chronic bronchitis) are advised not to work with this product.

12: ECOLOGICAL INFORMATION

Environmental Assessment: Contains volatile organic compounds. When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility: Insoluble in water.
Persistence and Degradability: Not readily biodegradable, but is inherently 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 base component to give an inert polymeric material
Used/Contaminated Product: Dispose of through an authorised waste contractor to a licensed site.
Packaging: Contains hazardous residues, must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

UN Number: 1866
IMO: Class: 3.3 Packing Group: III Marine Pollutant: No
IATA/ICAO: Class: 3 Packing Group: III
ADR: Class: 3 Item: 32 (c)
Transport Name: Resin Solution.
Hazchem/Kemler Code: 3W / 30

15: REGULATORY INFORMATION

Hazard Label Data:-

Named Ingredients: diphenylmethane-4-4'-diisocyanate (isomers)
UN Number: 1866
Symbol(s): Xn
Risk Phrases: Flammable
Harmful by inhalation
Irritating to eyes, respiratory system and skin
May cause sensitisation by inhalation
Safety Phrases: Do not breathe vapour/spray
Avoid contact with skin and eyes
Wear suitable protective clothing, gloves and eye/face protection
Use only in well ventilated areas
Contains isocyanates. See information supplied by the manufacturer
EC Directives: Dangerous Substances Directive, 67/548/EEC and adaptations.
Dangerous Preparations Directive, 88/379/EEC.
Safety Framework Directive, 89/391/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).
Codes of Practice: Waste Management. The Duty of Care.
Packaging of dangerous substances for carriage by road (L15).
Guidance Notes: Occupational exposure limits (EH 40).
Isocyanates: toxic hazards and precautions (EH16).

The above publications are available from HMSO

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Date Printed: 05/01/1999

SDS Reference: 3939/FTC/1

REVISION

Supersedes issue no: 01 dated: 20.03.96

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