

# SAFETY DATA SHEET

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

Product Name: **NITOMORTAR S HARDENER**

Application: Hardener component of three part high performance epoxy mortar 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: polyamide resin, modified aliphatic polyamine.

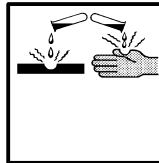
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
diethylenetriamine	C	R21/22, 34, 43	Cas No: 111-40-0	>10 <25
benzyl alcohol	Xn	R20/22	Cas No: 100-51-6	>10 <25
polyamide resin	Xi	R36/38	Cas No: 68410-23-1	>50

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

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, 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.

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

Storage: Keep away from foodstuffs and food containers. Keep containers dry and tightly closed.

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## 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Occupational Exposure Limits:-

Substance	8 Hour TWA	STEL	Source/Other Information
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2,2'-Iminodiethylamine ( diethylenetriamine )	4.3 mgm <sup>-3</sup>	- -	EH40
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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. Plastic apron and overalls.

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## 9: PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid.

Colour: Clear.

Odour: Amine. Musty.

Boiling Point/Range (°C): >180

Melting Point/Range (°C): Not applicable

Flash Point (closed, °C): >110

Viscosity (at 20°C): <15 poise

Explosive Properties (%): Not applicable.

Oxidising Properties: Not determined.

Vapour Pressure (kPa at 20°C): 0.1

Relative Density (at 20°C): 0.98

Water Solubility: Partially soluble

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## 10: STABILITY AND REACTIVITY

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Stability: Stable if used as directed

Conditions to Avoid: Temperatures (°C) below 0°C

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

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:

Expected oral LD50, rat > 2g/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.

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.

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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.

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Mobility: Mobile liquid. Partially soluble in water.  
Persistence and Degradability: Expected to be not readily biodegradable.  
Bioaccumulative Potential: Not expected to be bioaccumulative.  
Ecotoxicity: Ecotoxic to fish/daphnia/algae. Not expected to be inhibitory to sewage bacteria.

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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. 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.

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### 14: TRANSPORT INFORMATION

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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 (diethylenetriamine mixture)

Hazchem/Kemler Code: 2X / 80

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### 15: REGULATORY INFORMATION

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#### Hazard Label Data:-

Named Ingredients: diethylenetriamine

UN Number: 1760

Symbol(s): C

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

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

EC Directives: Safety Framework Directive, 89/391/EEC.  
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.  
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.

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: 0292/01 NMS HARD

## REVISION

Supersedes issue no: 03 dated: 01.10.96

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