

# SAFETY DATA SHEET

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

Product Name: **NITOFIL LV HARDENER**

Application: Hardener component of low viscosity epoxy resin injection grout.

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.

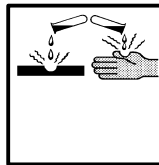
Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
trimethylhexamethylene diamine	C; N	R22, 34, 43, 51/53	Cas No: 25620-58-0	>50

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 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. Remove contaminated clothing immediately.

**Inhalation:** Remove from exposure. If feeling unwell obtain medical attention.

**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.

## 7: HANDLING AND STORAGE

**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.

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. 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  
Boiling Point/Range (°C): >230  
Flash Point (closed, °C): 110  
Autoflammability (°C): 350  
Explosive Properties (%): Lower explosive limit (LEL): 1.2 vol.%  
Vapour Pressure (kPa at 20°C): 0.002  
Relative Density (at 20°C): 0.89  
Water Solubility: Miscible

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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.

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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.

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

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

Risk Phrases: Causes burns.  
Harmful in contact with skin and 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: 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.  
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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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: 0297/1 NFLV HARD

### REVISION

Supersedes issue no: 01 dated: 07.12.93

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