



SAFETY DATA SHEET

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

Product Name: **NITOBOND EP HARDENER**
Application: Hardener component of two part epoxy based bonding compound.
Company: **Fosroc Chemicals (India) Pvt. Ltd.**
Address: No.38,12th Cross, III floor, PSR, ID CBI Road,
Ganganagar North, Bangalore 560 032.
Telephone 080 – 23551500 Fax : 080 – 23551510

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: modified cycloaliphatic amine, polyamidoamine, pigment.

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
isophorone diamine	C	R21/22, 34, 43	Cas No: 2855-13-2	>10<25
polyamidoamine	Xi	R36, 34, 43	NA	>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

Causes burns. Harmful in contact with skin and if swallowed. May cause sensitisation by skin contact.

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 as soon as possible. Obtain medical advice if skin disorders develop.
Inhalation: Remove from exposure.
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, 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 container and remove by best available means. Gather into containers. Dispose off as waste.

7: HANDLING AND STORAGE

Handling:	Avoid breathing vapours. Maintain good standards of personal hygiene. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.
Storage:	Keep away from foodstuff and food containers. Never leave a container unsealed.

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:	Avoid skin and eye contact. Impervious gloves (e.g. PVC), goggles. Plastic apron and overalls.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Paste.
Colour:	Green
Odour:	Sharp. Amine.
Flash Point (closed, °C):	>100°C
Autoflammability (°C):	Not determined.
Vapour Pressure (kPa at 20°C):	0.02
Relative Density (at 20°C):	1.0
Water Solubility:	Insoluble.
Partition Coefficient (n-octanol/water):	Not determined.

10: STABILITY AND REACTIVITY

Stability:	Stable if used as directed.
Conditions to Avoid:	Temperatures below 5°C.
Materials to Avoid:	Strong oxidising agents. Strong acids.
Hazardous Decomposition Products:	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 1000 mg/kg.

Health Effects

On Eyes:	Causes irreversible damage to eye tissue if not removed promptly.
On Skin:	Corrosive. Causes burns.
By Inhalation:	Irritating to respiratory system.
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.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Paste. Insoluble in water.
Persistence and Degradability:	Expected to be not readily biodegradable.
Bioaccumulative Potential:	Expected to be bioaccumulative.
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 special waste. May be reacted with base component to an inert polymeric material.

Used/Contaminated Product: Classified as special waste. Dispose off through an authorised waste contractor to a licensed site.

Packaging: Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

UN/SI Number: 1760

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

IATA/ICAO: Class: 8 Packing Group: III

ADR: Class: 8 Item: 53 (c)

Transport Name: Corrosive liquids, nos. (trimethylhexamthylene diamine/nony phenol mixture)

Hazchem/Kemler Code: 2X/80

15: REGULATORY INFORMATION

Hazard Label Data:

Named Ingredients:	cycloaliphatic amine, polyamidoamine.
UN Number:	1760
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. 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. After contact with skin wash immediately with plenty of soap and water.
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) Regs. 1993 (SI 1746). Control of Substances Hazardous to Health Regs. 1988 (SI 1657). Health & Safety at Work, etc Act 1974. Environmental Protection (Duty of Care) Regs 1991 (SI 2839). The Control of Pollution (Special Waste) Regulations 1980 (SI 1709).
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.

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 Chemicals (India) Pvt. 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 Chemicals (India) Pvt. Ltd.