

# MATERIAL SAFETY DATA SHEET

## NUTHANE RESIN POLYURETHANE

Infosafe™ NLX13 Issue Date January 2005 Status ISSUED by BS: 1.9.12  
No. NUPLEXNZ

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** NUTHANE RESIN POLYURETHANE  
**Product Code** B1NTR  
**Company Name** NUPLEX INDUSTRIES LIMITED  
**Address** 12 Industry Road PENROSE  
Auckland  
**Emergency Tel.** 0800 154 666 (24H)  
**Telephone/Fax Number** Tel: (09) 579 2029  
Fax: (09) 525 1618  
**Recommended Use** Component of a Polyurethane system  
**Other Names** Not Available  
**Other Information** AUSTRALIA : 49-61 Stephen Rd, Botany, NSW 2019.  
Phone (02) 9666 0331  
Fax (02) 9666 3368

### 2. HAZARDS IDENTIFICATION

**Hazard Classification**

HAZARDOUS SUBSTANCE.  
DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia  
Dangerous Goods Code.

**Risk Phrase(s)**

R43 May cause sensitization by skin contact.  
R62 Possible risk of impaired fertility.  
R61(2) May cause harm to the unborn child  
R51/53 Toxic to aquatic organisms, may cause long-term adverse  
effects in the aquatic environment.

**Safety Phrase (s)** S23 Do not breathe gas/fumes/vapour/spray  
S53 Avoid exposure - obtain special instructions before use.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.  
S24/25 Avoid contact with skin and eyes.  
S37/39 Wear suitable gloves and eye/face protection.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Benzyl butyl phthalate	85-68-7	10-20 %
	CASTOR OIL	8001-79-4	40-50 %
	Ingredients determined not to be hazardous	Not required	Balance
	Triethanolamine	102-71-6	1-2 %

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### 4. FIRST AID MEASURES

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**Inhalation** Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Apply artificial respiration if not breathing. Seek medical attention.

**Ingestion** Do NOT induce vomiting. Wash out mouth with water. Seek medical attention.

**Skin** Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. If symptoms develop seek medical attention.

**Eye** If contact with the eye(s) occur, wash with running water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**First Aid Facilities** Eye wash and normal washroom facilities.

**Advice to Doctor** Treat symptomatically. For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

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### 5. FIRE FIGHTING MEASURES

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**Suitable Extinguishing Media** Use dry chemical powder, carbon dioxide or foam. Do NOT use water jets. Cool fire exposed containers with water spray.

**Hazards from**

**Combustion Products** Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

**Specific Hazards** Combustible liquid. This product will burn if exposed to fire.

**Hazchem Code** 2X

**Precautions in connection with Fire** Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

**6. ACCIDENTAL RELEASE MEASURES**

**Emergency Procedures** Remove all sources of ignition. Increase ventilation. Wear appropriate breathing apparatus and full protective clothing to minimise skin and eye exposure. Do not dilute material but contain. Place inert, non-combustible absorbent material onto the spillage. Collect the material using clean non-sparking tools and place into a suitable labelled container for subsequent disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

**7. HANDLING AND STORAGE**

**Precautions for Safe Handling** Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. washing hands prior to eating, drinking or going to the toilet. Build-up of mists in the working atmosphere must be prevented.

**Conditions for Safe Storage** Store in a cool, dry, well ventilated area away from sources of ignition. This product should be stored away from foodstuffs and strong oxidising agents. For information on the design of the store-room reference should be made to the AS/NZS 4681:2000 The storage and handling of Class 9 (miscellaneous) dangerous goods and articles.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**National Exposure Standards** No exposure standards have been established for this material by the Australian National Occupational Health And Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, Exposure Standards for constituents:

Australia

	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Triethanolamine	-	5	-	-

New Zealand:

TWA STEL

	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Benzyl butyl phthalate	-	5	-	-
Triethanolamine	-	5	-	-

- Engineering Controls** Ensure sufficient ventilation to keep airborne concentrations below exposure limits. Mechanical exhaust ventilation may be required.
- Respiratory Protection** If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
- Eye Protection** Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
- Hand Protection** Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
- Body Protection** Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.
- Other Information** Biological Limit Values: No biological limit allocated.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance** White liquid
- Melting Point** Not available.
- Boiling Point** 100°C
- Solubility in Water** Completely miscible
- Specific Gravity** 1.05 @ 20°C
- pH Value** Not available.
- Vapour Pressure** Not available.
- Viscosity** 240 cst @ 25°C

<b>Volatile Component</b>	Not available
<b>Flash Point</b>	Expected > 60.5°C (Castor oil)
<b>Flammability</b>	Classified as Combustible liquid for the purposes of storage and handling, in accordance with the requirements of AS1940. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition.
<b>Auto-Ignition Temperature</b>	Not available.
<b>Flammable Limits - Lower</b>	Not available.
<b>Flammable Limits - Upper</b>	Not available.

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Heat, flames and other ignition sources.
<b>Incompatible Materials</b>	Strong oxidising agents
<b>Hazardous Decomposition Products</b>	Combustible products include carbon dioxide, carbon monoxide.
<b>Hazardous Reactions</b>	May react with strong oxidising agents
<b>Hazardous Polymerization</b>	May occur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	No toxicity data for this product.
<b>Inhalation</b>	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
<b>Skin</b>	May cause redness, itching and irritation.
<b>Eye</b>	May cause eye irritation, tearing, stinging, blurred vision, and redness.

**Chronic Effects** May cause harm to the unborn child. Developmental toxicity, is taken in its widest sense to include any effect interfering with normal development, both before and after birth. Possible risk of impaired fertility. Effects on fertility, includes adverse effects on libido, sexual behaviour, any aspect of spermatogenesis or oogenesis, or on hormonal activity or physiological response which would interfere with the capacity to fertilise, fertilisation itself or the development of the fertilised ovum up to and including implantation. Prolonged and repeated skin exposure may result to sensitisation.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** No data is available for this material.

**Persistence / Degradability** No data is available for this material.

**Mobility** No data is available for this material.

**Environment Protection** Prevent this material entering waterways, drains and sewers. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations** Dispose of in accordance with Local, State and Federal regulations.

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## 14. TRANSPORT INFORMATION

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**Transport Information**

Australia:  
This material is a Class 9 - Miscellaneous Dangerous Good according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. These substances are incompatible in a placard load with any of the following:  
- Class 1, Explosives (when the class 9 substance is a fire risk substance),  
- Class 5.1, Oxidizing agents (when the class 9 substance is a fire risk substance), and  
- Class 5.2, Organic peroxides (when the class 9 substance is a fire risk substance).

New Zealand:  
This material is classified as a Class 9 - Miscellaneous Substance according to NZS 5433:1999 Transport of Dangerous Goods on Land.  
Must not be loaded in the same freight container or on the same vehicle with:

- (Class 1) Explosives  
 Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:  
 (Note 3; Segregation devices may be used as to segregate dangerous goods of Class 9 when the nature of those dangerous goods requires them to be segregated from dangerous goods of);  
 - (Class 3) Flammable liquids  
 - (Class 4.1) Flammable solids  
 - (Class 4.2) Spontaneously combustible substances  
 - (Class 4.3) Dangerous when wet substances  
 - (Class 5.1) Oxidising substances  
 - (Class 5.2) Organic peroxides  
 - (Class 6.1) Toxic substances  
 - (Class 6.2) Infectious substances  
 - (Class 8) Corrosive substances  
 or from food items.

**U.N. Number** 3082

**Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (CONTAINS BENZYL BUTYL PHTHALATE)

**DG Class** 9

**Hazchem Code** 2X

**Packaging Method** 3.8.9

**Packing Group** III

**EPG Number** 9C1

**IERG Number** 47

**IMDG Marine Pollutant (MP)** This product is a marine pollutant according to the International Maritime Dangerous Goods (IMDG) Code.

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## 15. REGULATORY INFORMATION

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**Regulatory Information** Australia:  
 This product is not a scheduled poison.  
 Classified as hazardous according to criteria of Australian National Occupational Health & Safety Commission (NOHSC).  
 New Zealand:  
 This product is not a scheduled poison.

**Poisons Schedule** Not Scheduled

Not Scheduled ; New Zealand:Not Scheduled

**Hazard Category** Toxic,Irritant,Dangerous for the environment

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## 16. OTHER INFORMATION

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**Date of  
preparation or  
last revision  
of MSDS**

MSDS Creation: January 2005

**Contact  
Person/Point**

For further information ask for :Technical Manager, Phone 09  
5792029

For specialist advice in emergencies: NZ Phone 0800 154 666  
Australia 1800 022 037

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Nuplex Industries Limited. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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End of MSDS

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