



# Material Safety Data Sheet

Hazardous Substance, NON - Dangerous Goods

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** Elaston-PL75 Part A (for use with Elaston-PL75 Part B)

**Recommended use:** This is the "A" component of a two-part Polyurethane Elastomer, abrasion and chemical resistant system designed for internal coating of ductile iron and concrete pipelines.

**Supplier:** LIQUIMIX PTY LTD  
**ABN:** 32 062 887 585

**Street Address:** 1/29 Collinsvale St  
Rocklea, Qld 4106  
Australia

**Telephone:** + 61 7 3277 6655  
**Facsimile:** + 61 7 3009 0558

**Emergency telephone number:** Australia: 1 800 786 152 (ALL HOURS) NZ: 0800 767 376

## 2. HAZARDS IDENTIFICATION

**Australia**

**Hazardous according to the criteria of Work safe Australia.**

<b>UN No:</b> Not applicable	<b>D.G.CLASS :</b> Not applicable	<b>IMDG:</b> Not applicable
<b>HAZCHEM:</b> Not applicable	<b>SUB.RISK:</b> Not applicable	<b>CAS No:</b> MIXTURE
<b>G.T.EPG:</b> Not applicable	<b>PACK. GRP:</b> Not applicable	<b>SUSDP :</b> 6 (FED)
<b>SPEC.EPG:</b> Not applicable		

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

May cause sensitisation by inhalation and skin contact.

Do not breathe vapour/gas/fumes/spray

Wear suitable protective clothing and gloves

In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Liquid isocyanate based on MDI for polyols. This product has an isocyanate surplus that will react with atmospheric moisture to form solid polyurethane.

Ingredients:

Proportion

Diphenylmethane diisocyanate (MDI),

Containing Methylene bisphenyl isocyanate: 40-45%

Polymethylene polyphenyl isocyanate: 55-60%

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**Issued Date:** 24<sup>th</sup> October 2012

**Version:** 1.0

**Page 1 of 5**



# Material Safety Data Sheet

## 4. FIRST AID MEASURES

### If inhaled:

Remove from exposure. For all but the most minor symptoms arrange for a doctor or transport to the nearest to the nearest hospital

### In case of eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes

### In case of skin contact:

Immediately wash skin with soap and plenty of water. Get medical attention immediately if symptoms occur. Remove contaminated clothing before reuse.

### Other information:

Never give fluids or induce vomiting.

### Advice to Doctor:

May cause respiratory sensitisation or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Respiratory symptoms, including pulmonary oedema, may be delayed. Persons receiving significant exposure should be observed 24 – 48 hours for signs of respiratory distress. No specific antidote.

### Supportive care:

Treatment based on judgement of the physician in response to reactions of the patient.

## 5. FIRE / EXPLOSION HAZARDS

Combustible: Although not considered to be a significant fire risk.  
Flash Point: >200°C  
Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical powder.

## 6. ACCIDENTAL RELEASE MEASURES

### MINOR SPILLS

- Clean up all spills immediately.
- Absorb the spilt material with a suitable adsorbent material.
- Remove the adsorbent and waste into open top containers.
- Decontaminate with a mixture of: - 90 parts Water; 8 parts ammonia; 2 parts Methanol
- Wash the area with decontaminant. Wear suitable cartridge filter mask (complying with AS/NZS1716) and protective clothing

### MAJOR SPILLS

- Wear full protective equipment, including suitable cartridge filter mask (complying with AS/NZS1716) and impervious footwear (Rubber safety boots)
- Clean area of all unprotected personnel.
- Increase ventilation.
- Contain – Use sand and earth.
- Prevent run off into drains or waterways. Collect in open drums for disposal. Do not make pressure tight.
- Decontaminate area and equipment with diluted ammonia and detergent.



# Material Safety Data Sheet

## 7. HANDLING AND STORAGE

- Combustible liquid, avoid ALL ignition sources.
- Vapour heavier than air; prevent concentration in hollows of sumps.
- Do NOT enter confined spaces where vapour may have collected.
- This product contains a Scheduled Poison (S6) and must therefore be stored, maintained and used in accordance with the relevant State Poisons Act.
- Keep dry – Reacts with water – may lead to drum rupture.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE STANDARDS

#### WORKPLACE EXPOSURE STANDARD (ES) # FOR:

Isocyanates (as – NCO): 5 ppb TWA. 20 ppb STEL. Sen.

- # = Exposure Standard for Atmospheric Contaminants in the occupational Environment, published by Work safe Australia.
- TWA = Time weighted average exposure – 8-hour period.
- STEL = Short-term exposure limit.
- Sen. = Sensitiser.

### ENGINEERING CONTROLS

- Use local exhaust ventilation when the product is heated above 40°C
- Use only in a well ventilated area.

### PERSONAL PROTECTIVE EQUIPMENT

- Avoid skin and eye contact. Wear rubber gloves, full-face shield or chemical goggles, rubber boots and overalls. Gloves should be decontaminated after use.
- If inhalation risk exists, wear organic vapour mask, or air purifying respirator or air-wash hood, complying with AS/NZS1716. Respiratory protective devices.
- Wash contaminated clothing and protective equipment before storing or re-using.
- Always wash hands before smoking, eating, drinking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Brown liquid. Soluble in many organic solvents- reacts, often violently, with those containing active hydrogen, including water.

<b>Vapour Pressure @ 20°C:</b>	<10-5mm Hg (Contains no TDI)
<b>Specific Gravity:</b>	1.24 @ 25°C
<b>Vapour Pressure @ 100°C:</b>	10-2mm Hg (Contains <1% MDI)
<b>Flash Point:</b>	>204°C
<b>Auto Ignition temperature:</b>	>600°C

## 10. STABILITY AND REACTIVITY

Reacts vigorously with water and other materials containing free hydroxyl groups, producing carbon dioxide.



# Material Safety Data Sheet

## 11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 (rat):	>10,000 mg/kg
ACUTE DERMAL LD50 (Rabbit):	>10,000 MG/KG
Inhalation LC50 (rat):	>11 mg/L

### Health Effects From The Likely Routes Of Exposure

Considered to be harmful by inhalation. Contact with skin will result in mild irritation and is a skin sensitiser. A moderate to severe eye irritant – splash can cause severe chemical conjunctivitis. Vapour is an irritant to mucous membranes and respiratory tract, producing symptoms of dry throat cough – it is a respiratory sensitiser. Although not normally an inhalation risk, due to low vapour pressure at ambient temperatures, a vapour hazard will arise when the product is heated above 40°C or reacted in a confined or unventilated area. Inhalation of mists or aerosols can produce respiratory irritation, may cause sensitisation or asthma like systems.

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL PROTECTION

Avoid contaminating waterways, drains, sewers or ground.

**Environmental Fate** based on information for MDI and polymeric MDI.

**Movement & Partitioning:** In the aquatic or terrestrial environment, movement is expected to be limited by its reactivity with water forming predominantly insoluble polyureas.

**Degradation & Persistence:** In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polyureas which appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with related diisocyanates.

**Ecotoxicity:** The measured ecotoxicity is that of the hydrolysed product, generally under conditions maximising production of soluble species. Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 greater than 100 mg/L in most sensitive species). The LC50 in earthworm *Eisenia foetida* is greater than 1000 mg/kg.

## 13. DISPOSAL CONSIDERATIONS

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REFER TO STATE LAND WASTE MANAGEMENT AUTHORITY.

- Empty containers MUST be decontaminated.
- Normally suitable for incineration by approved agent.

## 14. TRANSPORT INFORMATION

- Classified as a Non-Dangerous Substance for the purpose of transport.
- Refer to State Regulations for storage and transport requirements.
- Product is labelled in accordance with the Code of Practice for Labelling Workplace Substances.
- Product repackaged for public consumer use should be labelled in accordance with the current standard for Uniform Scheduling of Drugs & Poisons (SUSDP), Part 2.



# Material Safety Data Sheet

## 15. REGULATORY INFORMATION

R20	Harmful by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
R42/43	May cause sensitisation by inhalation and skin contact
S23	Do not breathe vapour/gas/fumes/spray
S36/37	Wear suitable protective clothing and gloves
S45	In case of accident or if you feel unwell, seek medical advice immediately

(Show the label whenever possible)

## 16. OTHER INFORMATION

**REFERENCES:** American Ind. Hygiene Association. Journal (43), P.94 (Feb.'82).

MSDS STATUS (20/12/00): Revised – HEALTH HAZARD INFORMATION, PRECAUTIONS FOR USE, SAFE HANDLING INFORMATION, RISK & SAFETY STATEMENTS.

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since LIQUIMIX Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.