



# Material Safety Data Sheet

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Issue date: September 2005

## Polyurethane Elastomer (Cured)

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Polyurethane Elastomer Cured

**Synonym:** None

**Use:** Polyurethane materials can be used in various applications.

**Era Polymers Pty Ltd**  
25-27 Green Street  
East Botany NSW 2019  
Australia  
Ph: +61 2 9666 3788  
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**Emergency Advice All Hours:**  
Technical Manager +61 2 9666 3788

### 2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO EU CRITERIA

**Hazard Category:** None allocated

**Hazard Classification:** NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOOD

#### RISK PHRASES

None allocated.

#### SAFETY PHRASES

None allocated.

**Poison Schedule:** None allocated [Aust].

#### Warning Statement:

Non-hazardous substance with recommended use. Fully cured polyurethanes present no health hazard; they are chemically inert and insoluble in water and most organic solvents. If the polyurethane elastomer is changed chemically by burning or heating the material to a decomposition temperature, only then will vapours from the solid elastomer be hazardous.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
Cured Polyurethane Solid	100 %	Mixture

### 4. FIRST AID MEASURES

#### Swallowed:

If swallowed, do not induce vomiting. Rinse mouth thoroughly. No adverse effects anticipated by this route of exposure, incidental to proper industrial handling.

#### Eye:

If mechanically grinding the polyurethane elastomer produces dust that enters the eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. If irritation develops or persists, immediately transport to hospital or doctor.



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### **Skin:**

If dust is falls onto the skin, remove any contaminated clothing and wash skin thoroughly with copious quantities of water and soap. If irritation persists transport to hospital or doctor.

### **Inhaled:**

No vapours produced with usual industrial handling as the polyurethane is inert.

If the polyurethane is chemically changed by burning or heating then vapours will be produced. In this case, open all doors, windows and/or vents. Move victim to fresh air. Apply resuscitation if victim is not breathing. If trained personnel available administer oxygen if breathing is difficult.

### **First Aid Facilities:**

Eye wash fountain, safety shower and normal washroom facilities.

### **Advice to Doctor:**

Treat symptomatically.

**In case of poisoning, contact Poisons Information Centre**

**In Australia call Tel: 131126**

**In New Zealand Tel: 034747000**

## 5. FIRE-FIGHTING MEASURES

### **Fire/Explosion Hazard**

If safe to do so, move undamaged material from fire area.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposes on heating emitting soot, smoke, gaseous hydrocarbons, oxides of carbon and nitrogen, hydrogen cyanide and hydrogen chloride.

**FIRE FIGHTING PROCEDURES:** Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

**EXTINGUISHING MEDIA:** Use extinguishing media suitable for surrounding fire situation e.g. water spray, carbon dioxide, dry chemical powder or appropriate foam.

**HAZCHEM CODE:** None allocated [Aust]

### **FLAMMABILITY**

Polyurethane solid is not flammable under normal conditions but toxic vapours can be emitted under fire conditions by chemically burning or heating material to decomposition temperatures.

## 6. ACCIDENTAL RELEASE MEASURES

If mechanically grinding the polyurethane solid, dust or particulate matter can be swept up and disposed of by wrapping in an appropriate container and then discarding to landfill in accordance with local, State or Federal regulations. Spilled dust may present a slipping hazard.

If fire conditions prevail and the polyurethane solid begins to burn ventilate area as toxic vapours are produced. Keep unnecessary people away. Isolate hazard and deny entry. Stay upwind. If possible wet area down to prevent high dust levels. Use dustless methods, including a HEPA filter and vacuum and place into a suitably labelled and sealable container for later disposal. Do not dry sweep. Wear protective equipment.

## 7. HANDLING AND STORAGE

Polyurethane solid with proper industrial handling in ambient conditions requires no extra measure, except we recommend keeping away from sources that would cause the polyurethane solid to burn. Store away from oxidizing agents, acids and alkalis.



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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Standards

No exposure standards have been assigned by [NOHSC] for this product or any of the components:

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#### *Polyurethane Solid*

No Exposure details available

#### Engineering Controls

Polyurethane solid in its usual state will not produce dust particles, unless it is mechanically cut with or ground. If mechanically grinding the polyurethane solid, usual measure for dust control should be employed with the person wearing personal protective equipment and ventilation provided if required.

#### Personal Protection Equipment

CLOTHING: Overalls or apron only if grinding the polyurethane solid.

GLOVES: Not required unless generating a dust from the product.

EYES: Chemical goggles or face shield if mechanically grinding the polyurethane solid.

RESPIRATOR PROTECTION REQUIRED ONLY IF POLYURETHANE SOLID IS BURNT.

RESPIRATORY PROTECTION: Avoid breathing of dusts and vapours when the product is heated. Select and use respirators in accordance with AS/NZS 1715/1716. When vapours exceed the exposure standards then the use of an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus supplied air respirator complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Solid of varying colour, depending on product
<b>Boiling Point Melting Point:</b>	Product is solid
<b>Vapour Pressure:</b>	Not applicable
<b>Specific Gravity:</b>	Varying, depending on product
<b>Flash Point:</b>	Not applicable
<b>Flammability Limits:</b>	Not applicable
<b>Solubility in Water:</b>	Insoluble

#### Other Properties

Decomposition temperature > 150°C

### 10. STABILITY AND REACTIVITY

#### STABILITY:

Stable under normal conditions of use.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Emits choking and toxic fumes including hydrocarbons, oxides and nitrogen, hydrogen cyanide and hydrogen chloride when heated to decomposition.

#### HAZARDOUS POLYMERIZATION:

Will not occur.

#### INCOMPATIBILITIES:

Strong acids, alkalis, combustibles and oxidizing agents.

#### CONDITIONS TO AVOID:

Heat, flames, ignition sources so not to produce toxic vapours from burning.



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### 11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

#### **ACUTE HEALTH EFFECTS:**

##### **Swallowed:**

Single dose oral toxicity is believed to be very low. No hazards anticipated from swallowing small amounts incidental to normal handling operations. No hazards anticipated from swallowing small amounts incidental to normal use.

##### **Eye:**

Solid or dust may cause irritation or corneal injury due to mechanical action.

##### **Skin:**

Essentially non-irritating to skin. Mechanical injury only.

##### **Inhaled:**

Dust may cause irritation to upper respiratory tract. At room temperature, exposure to vapours is unlikely due to physical properties.

##### **Chronic:**

Product is not expected to have adverse impact on human health.

##### **Toxicological Data:**

There is no other toxicological information available for this product.

### 12. ECOLOGICAL INFORMATION

##### **Ecotoxicity:**

There is no information available for this product.

##### **Mobility:**

Insoluble in water.

##### **Persistence / Degradability:**

There is no information available for this product.

##### **Chemical Fate Information:**

There is no ecological information available for this product.

### 13. DISPOSAL CONSIDERATIONS

If dust or particles are produced from a grinding action they can be wrapped and placed in landfill. The polyurethane solid as it is inert can be placed in the usual approved waste disposal in accordance with local, State and Federal regulations.

### 14. TRANSPORT INFORMATION

##### **Road Transport**

**UN Number:** None allocated

**Proper Shipping Name:** NONE ALLOCATED

**Dangerous Goods Class:** None allocated

**Packing Group:** None allocated

**Label:** None allocated



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### Air Transport

**UN Number:** None allocated

**Proper Shipping Name:** NONE ALLOCATED

**Dangerous Goods Class:** None allocated

**Packing Group:** None allocated

**Label:** None allocated

### Sea Transport

**UN Number:** None allocated

**Proper Shipping Name:** NONE ALLOCATED

**Dangerous Goods Class:** None allocated

**Packing Group:** None allocated

**Label:** None allocated

## 15. REGULATORY INFORMATION

**Poison Schedule:** None allocated [Aust]

## 16. OTHER INFORMATION

### Date of Preparation:

Issue date: 14/09/2005

Supersedes: June 2000

### Reasons for Update:

New format.

### Key Legend Information:

NOHSC - National Occupational Health & Safety Commission {Formerly Worksafe}[Aust]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances

EPA - Environmental Protection Agency [Int]

NIOSH - National Institute for Occupational Safety and Health [US]

AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ]

AS/NZS 1716 - Respiratory protective devices. [Aust/NZ]

IATA - International Aviation Transport Authority [Int]

ICAO - International Civil Aviation Organization [Int]

IMO - International Maritime Organisation. [Int]

IMDG - International Maritime Dangerous Goods [Int]

United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]

EU - European Union

[Aust/NZ] = Australian New Zealand

[Int] = International

[US] = United States of America

Removal of the heading of *Poison Schedule [Aust]*, in section 3 and 15 of this Material Safety Data Sheet (MSDS) makes this a valid health and safety document in other international jurisdictions/countries. For full compliance please contact your Federal, State or Local regulators for further information.

### Disclaimer

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used.

### Principal References:

Information supplied by manufacturer, reference sources including the public domain.

**END OF MSDS**