



# Material Safety Data Sheet

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Issue date: September 2008

## ERABOND 6100 PRIMER PART A

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** ERABOND 6100 PRIMER PART A

**Synonym:** None

**Use:** Polyurethane prepolymer in flammable liquid

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### 2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO NOHSC CRITERIA

**Hazard Category:** Harmful (Xn), Irritant (Xi)

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

#### RISK PHRASES

R10 Flammable.  
R20 Harmful by inhalation.  
R43 May cause sensitisation by skin contact.  
R66 Repeated exposure may cause skin dryness or cracking.

#### SAFETY PHRASES

S24/25 Avoid contact with skin.  
S37/39 Wear suitable gloves.  
S51 Use only in well-ventilated areas.  
S60 This material and/or its container must be disposed of as hazardous waste.

**Poison Schedule:** S5 [Aust]

This material is a Scheduled **S5** Poison and must be stored, handled and used according to the appropriate regulations.

#### Warning Statement:

Avoid breathing vapours. Avoid skin contact. Skin contact may cause allergic reaction. Flammable liquid.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
ALIPHATIC POLYISOCYANATE	30 to 60%	28182-81-2
N-BUTYL ACETATE	30 to 60%	123-86-4
XYLENE (Below Cut-off)	1 to 10%	1330-20-7
ETHYLBENZENE (Below Cut-off)	1 to 10%	100-41-4
HEXAMETHYLENE-DIISOCYANATE (Below Cut-off)	Less than 1%	822-06-0

All other ingredients not hazardous according to NOHSC Criteria.



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### 4. FIRST AID MEASURES

**Swallowed:**

If swallowed, DO NOT induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Drink plenty of water. Seek medical attention.

**Eye:**

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eyelids are held open. Seek medical attention if irritation persists.

**Skin:**

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap. Seek medical attention if irritation persists.

**Inhaled:**

Remove exposed person to fresh air at once. Seek medical attention if any discomfort continues.

**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**

EXTINGUISHING MEDIA: Extinguish with foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) and full protective clothing required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel. Avoid spreading burning liquid with water used for cooling fire-exposed containers. Keep up-wind to avoid fumes. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Avoid breathing fire vapours. By heating and fire, toxic vapours/gases may be formed. Vapours from this product may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from the point of handling.

**HAZCHEM CODE:** 3[Y] [Aust]

**FLAMMABILITY**

Flammable liquid. Avoid all sources of ignition, heat and naked flames. Vapours may travel a considerable distance to source of ignition and ignite.

### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:**

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Do not breathe vapour. Avoid contact with skin and eyes. Do not smoke, use naked flames or other sources of ignition.

**ENVIRONMENTAL PRECAUTIONS:**

Do not discharge into drains, watercourses, or onto the ground. Spillages or uncontrolled discharges into watercourses must be immediately alerted to the local water company or Environmental Agency.



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### SPILL CLEAN-UP METHODS:

Absorb with sand or other inert absorbent. Avoid contact with skin or inhalation of spillage, dust or vapour. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Do not close container tightly - risk of excess pressure build-up.

## 7. HANDLING AND STORAGE

### USAGE PRECAUTIONS:

Handle and open container with care. Avoid contact with skin and eyes. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above acceptable level. Keep away from heat, sparks and open flame. Good work-place hygiene is necessary. Wash hands and any contaminated areas with water and soap after use. Do not eat, drink or smoke when using the product.

### STORAGE PRECAUTIONS:

Store in tightly closed original containers in a cool, dry, well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by [NOHSC] to the following components of the product:

- **ALIPHATIC POLYISOCYANATE**

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

- **N-BUTYL ACETATE**

(Worksafe Australia)

[TWA] 150 ppm 713 mg/m<sup>3</sup>

[STEL] 200 ppm 950 mg/m<sup>3</sup>

References: H

(ACGIH)

[TWA] 150 ppm 713 mg/m<sup>3</sup>

[STEL] 200 ppm 950 mg/m<sup>3</sup>

Carcinogen Category: A4

- **XYLENE (Below Cut-off)**

(Worksafe Australia)

[TWA] 80 ppm 350 mg/m<sup>3</sup>

[STEL] 150 ppm 655 mg/m<sup>3</sup>

References: A;R

(ACGIH)

[TWA] 100 ppm 434 mg/m<sup>3</sup>

[STEL] 150 ppm 651 mg/m<sup>3</sup>

Carcinogen Category: A4

Notices: BEI

- **ETHYLBENZENE (Below Cut-off)**

(Worksafe Australia)

[TWA] 100 ppm 434 mg/m<sup>3</sup>

[STEL] 125 ppm 543 mg/m<sup>3</sup>

References: H;R

(ACGIH)

[TWA] 100 ppm 434 mg/m<sup>3</sup>

[STEL] 125 ppm 543 mg/m<sup>3</sup>



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- **HEXAMETHYLENE-DIISOCYANATE (Below Cut-off)**

Isocyanate exposure standard (Worksafe Australia)

[TWA] 0.02 mg/m<sup>3</sup>

[STEL] 0.07 mg/m<sup>3</sup>

Notices: Sen

(ACGIH)

[TWA] 0.005 ppm 0.034 mg/m<sup>3</sup>

### Engineering Controls

Flammable liquid. Maintain adequate general and local exhaust ventilation at all times to ensure the defined occupational exposure limits are not exceeded. Prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition. If exhaust ventilation is unavailable or inadequate, use approved respiratory protection.

### Personal Protection Equipment

**CLOTHING:** Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**GLOVES:** Wear protective gloves to prevent skin contact - rubber, neoprene or PVC.

**EYES:** Wear approved chemical safety goggles or face shield to protect eyes.

**RESPIRATORY PROTECTION:** Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. When gases exceed the exposure standards then the use of a half-face respirator with organic vapour cartridge is recommended. For high concentrations use an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus, 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>	Clear liquid
<b>Boiling Point Melting Point:</b>	BP = 125-145°C, MP = not determined
<b>Vapour Pressure:</b>	Not determined
<b>Specific Gravity:</b>	0.99 @ 25°C
<b>Flash Point:</b>	26.6°C
<b>Flammability Limits:</b>	Not determined
<b>Solubility in Water:</b>	Insoluble

### Other Properties

Vapour density > 1 (air = 1)

% Volatiles (by vol) = 57.1%

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable under normal temperature conditions and recommended use.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion may liberate carbon monoxide, carbon dioxide and other toxic gases or vapours.

### HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions of use.

### INCOMPATIBILITIES:

Avoid contact with: water, moisture, strong acids, alcohols, glycols, bases (inorganic), bases (organic), other metals or alloys.



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### CONDITIONS TO AVOID:

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight. Store below 25°C.

## 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:

May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

#### Eye:

May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

#### Skin:

Will cause irritation to the skin, with effects including: redness, itchiness, and possible dermatitis.

#### Inhaled:

Harmful if inhaled.

May cause irritation to the nose, throat and respiratory system with effects including: dizziness, headache and loss of co-ordination.

#### Chronic:

Prolonged or repeated skin contact may lead to dermatitis.

Prolonged or repeated exposure may lead to irreversible damage to health.

Prolonged or repeated contact with this substance will cause sensitisation by skin contact.

Repeated exposure to the skin may cause skin dryness or cracking.

Prolonged or repeated exposure may cause sensitisation by inhalation.

Persons already allergic to isocyanates, particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

### Toxicological Data:

There is no other toxicological information available for this product.

### Toxicological Data for Ingredient(s):

ALIPHATIC POLYISOCYANATE:

LD50 (oral, rat) > 5,000 mg/kg

### Route(s) of entry:

Inhalation, skin absorption, ingestion.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

Do not release into the environment.

### Mobility:

DO NOT allow ANY environmental contamination. Do not discharge into drains, watercourses, or onto the ground.

### Persistence / Degradability:

There is no information available for this product.

### Chemical Fate Information:

This product may cause long-term adverse effects in the environment. Avoid release of this product into drains, sewers and waterways.





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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**