

# Material Safety Data Sheet

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Issue date: February 2008

## BRG65A ISOCYANATE

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** BRG65A ISOCYANATE

**Synonym:** GL65A Isocyanate

**Use:** POLYURETHANE

**Era Polymers Pty Ltd**

**25-27 Green Street**

**Banksmeadow NSW 2019**

**Australia**

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**Emergency Advice All Hours:**

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### 2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO EU CRITERIA

**Hazard Category:** Toxic (T), Irritant (Xi)

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

#### RISK PHRASES

R23 Toxic by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitisation by inhalation and skin contact.

#### SAFETY PHRASES

S23 Do not breathe fumes/vapour/spray

S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S28 After contact with skin, wash immediately with plenty of...soap and water

S38 In case of insufficient ventilation, wear suitable respiratory protection.

S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately and show this container or label.

**Poison Schedule:** S6 [Aust]

This material is a Scheduled **S6** Poison and must be stored, handled and used according to the appropriate regulations..

**Warning Statement:**

Sensitizer

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
PREPOLYMER IPDI/ESTER	Greater than 60% Mixture	
POLYISOCYANATE	0-10% Proprietary	

All other ingredients not hazardous according to EU Criteria.

### 4. FIRST AID MEASURES

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### Swallowed:

If swallowed, DO NOT induce vomiting. If person is conscious give water to drink. Seek medical attention immediately.

### Eye:

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

### Skin:

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

### Inhaled:

Remove 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 containers from fire area.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposes on heating emitting toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

**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. Use foam, water spray (fog), CO<sub>2</sub> or dry powder. Use water spray to cool fire-exposed containers and for large fires.

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

### FLAMMABILITY

This product is not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

Material may be slippery when spilt. Walk cautiously. Ventilate area. Wear protective equipment to prevent skin and eye contact, as outlined in Section 8 of this Material Safety Data Sheet. Bund area using sand or soil - to prevent run off into drains and waterways. Use absorbent (soil, sand, vermiculite or other inert material). Collect and seal in properly labelled containers for disposal.

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### 7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidising agents. Keep containers closed when not using the product. Store in original packages as approved by manufacturer. Purge with nitrogen and close container when not in use. Do not eat, drink or smoke in the workplace.

### 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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#### **PREPOLYMER IPDI/ESTER**

No Exposure details available

#### Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended. If exhaust ventilation is not available or inadequate, use approved respirator to Australian Standards.

#### Personal Protection Equipment

**CLOTHING:** Wear suitable protective clothing to prevent skin contact.

**GLOVES:** Wear impervious gloves to prevent skin contact - PVC or natural rubber.

**EYES:** Wear safety glasses with side shields, chemical 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. The use of a respirator for organic vapours with disposable or with replaceable filters 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>	Not determined
<b>Vapour Pressure:</b>	Not determined
<b>Specific Gravity:</b>	1.1
<b>Flash Point:</b>	not determined
<b>Flammability Limits:</b>	not determined
<b>Solubility in Water:</b>	Reacts with water liberating carbon dioxide

#### Other Properties

isocyanate content = 25%

### 10. STABILITY AND REACTIVITY

#### STABILITY:

Stable under normal conditions of use.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Emits smoke and fumes when heated to decomposition.

#### HAZARDOUS POLYMERIZATION:

Will not occur.

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### INCOMPATIBILITIES:

Strong alkalis, acids, oxidizing agents.

### CONDITIONS TO AVOID:

Heat, flames, ignition sources and incompatibles.

## 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:

Will cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision. Depending upon duration of exposure, eye damage may occur.

#### Skin:

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

#### Inhaled:

Toxic if inhaled.

Will cause irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination and chest pains.

#### Chronic:

Prolonged or repeated skin contact may lead to dermatitis.

Prolonged contact may cause severe eye irritation and some form of permanent eye damage may occur.

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

Prolonged or repeated exposure or deliberately concentrating and inhaling the vapour(s) may result in lung function incapacity or death.

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

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

### Toxicological Data:

There is no other toxicological information available for this product.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

NO INFORMATION AVAILABLE

### Mobility:

This material does not disperse readily in water. It will react with water to form an insoluble polyurea which is solid, insoluble and stable

### Persistence / Degradability:

This material will react with water or moisture vapour readily to form a solid polyurea.

The polyurea is not readily biodegradable

### Chemical Fate Information:

This substance may cause long term adverse effects in the environment



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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**