

# **ERAPOL EME95A ISOCYANATE**

## **Era Polymers Pty Ltd**

Version No: 1.3

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

#### Chemwatch Hazard Alert Code: 2

Issue Date: 05/06/2014 Print Date: 30/09/2015 Initial Date: Not Available S.GHS.USA.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

## **Product Identifier**

Product name	ERAPOL EME95A ISOCYANATE
Synonyms	Not Available
Other means of identification	Not Available

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Polyurethane prepolymer

## Details of the supplier of the safety data sheet

Registered company name	Era Polymers Pty Ltd
Address	25-27 Green Street 2019 NSW Australia
Telephone	+61 (0)2 9666 3788
Fax	+61 (0)2 9666 4805
Website	www.erapol.com.au
Email	erapol@erapol.com.au

# Emergency telephone number

Association / Organisation	CHEMWATCH
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

# **CHEMWATCH EMERGENCY RESPONSE**

Primary Number	Alternative Number 1	Alternative Number 2		
877 715 9305	+612 9186 1132	Not Available		

Once connected and if the message is not in your prefered language then please dial 01

Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

# **SECTION 2 HAZARDS IDENTIFICATION**

# Classification of the substance or mixture

# CHEMWATCH HAZARD RATINGS

		Min	Max	
Flammability	1		- 1	
Toxicity	0			0 = Minimum
Body Contact	2		1	1 = Low
Reactivity	1			2 = Moderate
Chronic	2			3 = High



**GHS Classification** 

Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Respiratory Sensitizer Category 1, Skin Sensitizer Category 1, Carcinogen Category 2, STOT - SE (Resp. Irr.) Category 3, STOT - RE Category 2

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GHS label elements





SIGNAL WORD

DANGER

#### Hazard statement(s)

H315	Causes skin irritation	
H319	ses serious eye irritation	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
H317	May cause an allergic skin reaction	
H351	Suspected of causing cancer	
H335	May cause respiratory irritation	
H373	May cause damage to organs through prolonged or repeated exposure	

## Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P260	not breathe dust/fume/gas/mist/vapours/spray.	
P271	Jse only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P281	Use personal protective equipment as required.	

# Precautionary statement(s) Response

P304+P340	INHALED: Remove person to fresh air and keep comfortable for breathing.	
P308+P313	posed or concerned: Get medical advice/attention.	
P342+P311	experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician/first aider	
P362	Take off contaminated clothing.	
P363	Wash contaminated clothing before reuse.	

### Precautionary statement(s) Storage

-	·
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

#### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
101-68-8	10-30	4,4'-diphenylmethane diisocyanate (MDI)
Not Available	70-90	Polyurethane prepolymer

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

# **SECTION 4 FIRST AID MEASURES**

# Description of first aid measures

If this product comes in contact with the eyes:

► Wash out immediately with fresh running water.

► Ensure complete irrigation of the eye by keeping

- ▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- ► Seek medical attention without delay; if pain persists or recurs seek medical attention.
- ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

# Skin Contact

If skin contact occurs

- ► Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- ► Seek medical attention in event of irritation.

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# Inhalation

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor, without delay.

Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted

#### Ingestion

- ► Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

#### Most important symptoms and effects, both acute and delayed

See Section 11

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For sub-chronic and chronic exposures to isocyanates:

- Fig. 12 This material may be a potent pulmonary sensitiser which causes bronchospasm even in patients without prior airway hyperreactivity.
- ▶ Clinical symptoms of exposure involve mucosal irritation of respiratory and gastrointestinal tracts.
- ▶ Conjunctival irritation, skin inflammation (erythema, pain vesiculation) and gastrointestinal disturbances occur soon after exposure.
- ▶ Pulmonary symptoms include cough, burning, substernal pain and dyspnoea.
- ► Some cross-sensitivity occurs between different isocyanates
- Noncardiogenic pulmonary oedema and bronchospasm are the most serious consequences of exposure. Markedly symptomatic patients should receive oxygen, ventilatory support and an intravenous line.
- Figure 1 Treatment for asthma includes inhaled sympathomimetics (epinephrine [adrenalin], terbutaline) and steroids.
- Activated charcoal (1 g/kg) and a cathartic (sorbitol, magnesium citrate) may be useful for ingestion.
- Mydriatics, systemic analgesics and topical antibiotics (Sulamyd) may be used for corneal abrasions.
- ► There is no effective therapy for sensitised workers.

#### [Ellenhorn and Barceloux; Medical Toxicology]

**NOTE:** Isocyanates cause airway restriction in naive individuals with the degree of response dependant on the concentration and duration of exposure. They induce smooth muscle contraction which leads to bronchoconstrictive episodes. Acute changes in lung function, such as decreased FEV1, may not represent sensitivity. [Karol & Jin, Frontiers in Molecular Toxicology, pp 56-61, 1992]

Personnel who work with isocyanates, isocyanate prepolymers or polyisocyanates should have a pre-placement medical examination and periodic examinations thereafter, including a pulmonary function test. Anyone with a medical history of chronic respiratory disease, asthmatic or bronchial attacks, indications of allergic responses, recurrent eczema or sensitisation conditions of the skin should not handle or work with isocyanates. Anyone who develops chronic respiratory distress when working with isocyanates should be removed from exposure and examined by a physician. Further exposure must be avoided if a sensitivity to isocyanates or polyisocyanates has developed.

# **SECTION 5 FIREFIGHTING MEASURES**

# **Extinguishing media**

- Foam.
- Dry chemical powder
- ▶ BCF (where regulations permit).
- ▶ Carbon dioxide
- ► Water spray or fog Large fires only

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### Advice for firefighters

#### Fire Fighting

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus
- ▶ Prevent, by any means available, spillage from entering drains or water course.
- ▶ Use water delivered as a fine spray to control fire and cool adjacent area.
- Avoid spraying water onto liquid pools.

# Fire/Explosion Hazard

- Combustible.Slight fire hazard when exposed to heat or flame.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- ▶ On combustion, may emit toxic fumes of carbon monoxide (CO).
- May emit acrid smoke.

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures

#### Minor Spills

- ► Remove all ignition sources
- ► Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- ► Control personal contact with the substance, by using protective equipment.
- ► Contain and absorb spill with sand, earth, inert material or vermiculite.

# Major Spills

For isocyanate spills of less than 40 litres (2 m2):

- Evacuate area from everybody not dealing with the emergency, keep them upwind and prevent further access, remove ignition sources and, if inside building, ventilate area as well as possible.
- Notify supervision and others as necessary.
- Put on personal protective equipment (suitable respiratory protection, face and eye protection, protective suit, gloves and impermeable boots).

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- ► Control source of leakage (where applicable).
- ▶ Dike the spill to prevent spreading and to contain additions of decontaminating solution.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

# Safe handling

- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- ► Avoid all personal contact, including inhalation
- ▶ Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- ► DO NOT enter confined spaces until atmosphere has been checked.

#### Other information

for commercial quantities of isocyanates:

- ► Isocyanates should be stored in adequately bunded areas. Nothing else should be kept within the same bunding. Pre-polymers need not be segregated.

  Drums of isocyanates should be stored under cover, out of direct sunlight, protected from rain, protected from physical damage and well away from moisture, acids and alkalis
- Where isocyanates are stored at elevated temperatures to prevent solidifying, adequate controls should be installed to prevent the high temperatures and precautions against fire should be taken.

#### Conditions for safe storage, including any incompatibilities

#### Suitable container

- ► Metal can or drum
- ▶ Packaging as recommended by manufacturer.
- ► Check all containers are clearly labelled and free from leaks

## Storage incompatibility

- Avoid reaction with oxidising agents
   NOTE: May develop pressure in containers; open carefully. Vent periodically.
- ► Segregate from alcohol, water.

#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### Control parameters

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	4,4'-diphenylmethane diisocyanate (MDI)	Methylene bisphenyl isocyanate	Not Available	Not Available	0.2 mg/m3 / 0.02 ppm	(MDI)
US ACGIH Threshold Limit Values (TLV)	4,4'-diphenylmethane diisocyanate (MDI)	Methylene bisphenyl isocyanate	0.005 ppm	Not Available	Not Available	TLV® Basis: Resp sens
US NIOSH Recommended Exposure Limits (RELs)	4,4'-diphenylmethane diisocyanate (MDI)	4,4'-Diphenylmethane diisocyanate; MDI; Methylene bis(4-phenyl isocyanate); Methylene di-p-phenylene ester of isocyanic acid	0.05 mg/m3 / 0.005 ppm	Not Available	0.2 mg/m3 / 0.020 ppm	[10-minute]

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
4,4'-diphenylmethane diisocyanate (MDI)	Methylene diphenyl diisocyanate; (Diphenylmethane diisocyanate; MDI)	0.45 mg/m3	Not Available	Not Available
4,4'-diphenylmethane diisocyanate (MDI)	Methylenebis(isocyanato-benzene), 1,1'-; (Diphenyl methane diisocyanate)	40 mg/m3	40 mg/m3	240 mg/m3

Ingredient	Original IDLH	Revised IDLH
4,4'-diphenylmethane diisocyanate (MDI)	100 mg/m3	75 mg/m3
Polyurethane prepolymer	Not Available	Not Available

#### Exposure controls

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly.

# Personal protection









# Eye and face protection

- ► Safety glasses with side shields
- Chemical goggles
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of

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	<ul> <li>lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</li> </ul>

# Respiratory protection

**Body protection** 

Other protection

Thermal hazards

Not Available

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

See Other protection below

 Overalls. ► P.V.C. apron.

Not Available

▶ Barrier cream. ► Skin cleansing cream.

# Information on basic physical and chemical properties

Appearance	Family of products which vary in their physical properties as a result of variations in production. Data presented here is for typical family member.   MILKY WHITE TRANSLUCENT		
Physical state	Liquid	Relative density (Water = 1)	1.13
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Reacts	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 TOXICOLOGICAL INFORMATION**

## Information on toxicological effects

Inhaled

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. The material has NOT been classified by EC Directives or other classification systems as "harmful by inhalation". This is because of the lack of corroborating animal or human evidence.

Inhalation hazard is increased at higher temperatures.

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The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating Ingestion High molecular weight material; on single acute exposure would be expected to pass through gastrointestinal tract with little change / absorption. Occasionally accumulation of the solid material within the alimentary tract may result in formation of a bezoar (concretion), producing discomfort. This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry Skin Contact through wounds, lesions or abrasions Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Eye This material can cause eye irritation and damage in some persons There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Chronic Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Harmful: danger of serious damage to health by prolonged exposure through inhalation. TOXICITY IRRITATION **ERAPOL EME95A ISOCYANATE** Not Available Not Available TOXICITY IRRITATION Dermal (rabbit) LD50: >6200 mg/kg\*\*[2] [\* = Bayer CCINFO 2133615] 4,4'-diphenylmethane Inhalation (rat) LC50: 0.49 mg/l4 h<sup>[1]</sup> Dermal Sensitiser \* diisocyanate (MDI) Oral (rat) LD50: >2000 mg/kg<sup>[1]</sup> Respiratory Sensitiser (g.pig) \* Skin (rabbit): 500 mg/24 hours 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data Legend: extracted from RTECS - Register of Toxic Effect of chemical Substances 4.4'-DIPHENYLMETHANE Inhalation (human) TCLo: 0.13 ppm/30 mins Eye (rabbit): 0.10 mg moderate DIISOCYANATE (MDI) The following information refers to contact allergens as a group and may not be specific to this product. **ERAPOL EME95A** Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema ISOCYANATE & involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-4,4'-DIPHENYLMETHANE mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance DIISOCYANATE (MDI) and the opportunities for contact with it are equally important. Acute Toxicity 0 Carcinogenicity Skin Irritation/Corrosion 0 Reproductivity Serious Eye STOT - Single Exposure Damage/Irritation Respiratory or Skin v STOT - Repeated Exposure sensitisation 0 Mutagenicity 0 **Aspiration Hazard** 

Legend:

Data required to make classification available

X - Data available but does not fill the criteria for classification

O - Data Not Available to make classification

## **SECTION 12 ECOLOGICAL INFORMATION**

# Toxicity

DO NOT discharge into sewer or waterways

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
4,4'-diphenylmethane diisocyanate (MDI)	LOW (Half-life = 1 days)	LOW (Half-life = 0.24 days)

# Bioaccumulative potential

Ingredient	Bioaccumulation
4,4'-diphenylmethane diisocyanate (MDI)	LOW (BCF = 15)

#### Mobility in soil

,	
Ingredient	Mobility

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#### **ERAPOL EME95A ISOCYANATE**

4,4'-diphenylmethane diisocyanate (MDI)

LOW (KOC = 376200)

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

- ► Containers may still present a chemical hazard/ danger when empty.
  - ▶ Return to supplier for reuse/ recycling if possible. Otherwise:

#### Product / Packaging disposal

- Fig container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and MSDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory.

#### **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

**Marine Pollutant** 

NO

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	4,4'-diphenylmethane diisocyanate (MDI)	Υ

#### **SECTION 15 REGULATORY INFORMATION**

### Safety, health and environmental regulations / legislation specific for the substance or mixture

#### 4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)(101-68-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Alaska Limits for Air Contaminants	Contaminants
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US - Washington Permissible exposure limits of air contaminants
(CRELs)	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
US - California Permissible Exposure Limits for Chemical Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV)
US - Idaho - Limits for Air Contaminants	US EPA Carcinogens Listing
US - Michigan Exposure Limits for Air Contaminants	US EPCRA Section 313 Chemical List
US - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)
US - Oregon Permissible Exposure Limits (Z-1)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-2)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	

#### **Federal Regulations**

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	YES
Delayed (chronic) health hazard	YES
Fire hazard	NO
Pressure hazard	NO
Reactivity hazard	NO

# US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
MDI	5000	2270

### State Regulations

### US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
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## **ERAPOL EME95A ISOCYANATE**

Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (4,4'-diphenylmethane diisocyanate (MDI))
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 OTHER INFORMATION**

#### Other information

## Ingredients with multiple cas numbers

Name	CAS No
4,4'-diphenylmethane diisocyanate (MDI)	101-68-8, 26447-40-5

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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