



# Material Safety Data Sheet

Page 1 of 7 Issue date: July 2008

## ERASPRAY ESM700 POLYOL

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** ERASPRAY ESM700 POLYOL

**Synonym:** None

**Use:** Polyurethane spray curative

**Era Polymers Pty Ltd**

**25-27 Green Street**

**Banksmeadow 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

HAZARDOUS ACCORDING TO EU CRITERIA

**Hazard Category:** Harmful (Xn), Corrosive (C)

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

#### RISK PHRASES

R21/22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R43 May cause sensitisation by skin contact.

R48 Danger of serious damage to health by prolonged exposure.

R50 Very toxic to aquatic organisms.

R51 Toxic to aquatic organisms

R52 Harmful to aquatic organisms.

R53 May cause long term adverse effects in the aquatic environment.

#### SAFETY PHRASES

S20 When using, do not eat or drink.

S23 Do not breathe spray

S24/25 Avoid contact with skin and eyes.

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

S36/37/39 Wear suitable protective clothing, gloves and eye/face 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.

S46 If swallowed, 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:**

None



# Material Safety Data Sheet

Page 2 of 7 Issue date: July 2008

## ERASPRAY ESM700 POLYOL

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
POLYOXYPROPYLENEDIAMINE	30 to 60%	9046-10-0
DIETHYLTOLUENE DIAMINE [DETDA]	10 to 30%	68479-98-1
DIBUTYLTIN DILAURATE (Below Cutoff)	Less than 1%	77-58-7
ALKYL ARYL PIPERIDYL SEBACATE	1 to 10%	41556-26-7
ARYL POLYETHER POLYOL	1 to 10%	104810-48-2

All other ingredients not hazardous according to EU Criteria.

### 4. FIRST AID MEASURES

**Swallowed:**

If swallowed, DO NOT induce vomiting. Seek urgent medical assistance.

**Eye:**

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.

**Skin:**

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap if available.

Urgently transport to hospital or doctor.

**Inhaled:**

Remove victim to fresh air. Apply resuscitation if victim is not breathing - DO NOT USE DIRECT MOUTH - TO - MOUTH METHOD if victim ingested or inhaled substance; use alternative respiratory method or proper respiratory device - Administer oxygen if breathing is difficult.

**First Aid Facilities:**

Eye wash fountain, safety shower and normal wash room 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: Use dry chemical, carbon dioxide, foam or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) 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 when using water spray, boil-over may occur when the product temperature reaches the boiling point of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: 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:** 2X [Aust]

**FLAMMABILITY**



# Material Safety Data Sheet

Page 3 of 7 Issue date: July 2008

## ERASPRAY ESM700 POLYOL

Material does not burn.  
Containers may explode when heated.  
Runoff may pollute waterways.  
May be transported in molten form.  
Fire will produce irritating, toxic and / or corrosive gases.

### 6. ACCIDENTAL RELEASE MEASURES

#### EMERGENCY ACTION:

Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Isolate for 100 m in all directions if tank, rail car or tanker truck is involved in fire.

#### SPILL OR LEAK PROCEDURE:

Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour; but it may not prevent ignition in closed spaces.

#### SMALL SPILLS:

Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. Place into labelled drum(s) for later disposal.

**LARGE SPILLS:** Notify Emergency Services (Police or Fire Brigade). Tell them location, nature and any information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

### 7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, strong alkalis, acids and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. Check all fittings, valves, reticulation (piping) and any ancillary equipment for leaks. A supplied air respirator or a Self-Contained Breathing Apparatus (SCBA) for emergencies should be available and checked regularly. For further information please refer to the Engineering Controls of this MSDS.

### 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:

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#### ***POLYOXYPROPYLENEDIAMINE***

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

#### ***DIETHYLTOLUENE DIAMINE [DETD]***

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

\*\*\*\*\*

#### ***DIBUTYLTIN DILAURATE (Below Cutoff)***

(Worksafe Australia)

[TWA]0.1 mg/m<sup>3</sup>

[STEL]0.2 mg/m<sup>3</sup>

(ACGIH)

[TWA]0.1 mg/m<sup>3</sup>

**Carcinogen Category: A4**



# Material Safety Data Sheet

Page 4 of 7 Issue date: July 2008

## ERASPRAY ESM700 POLYOL

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### **ALKYL ARYL PIPERIDYL SEBACATE**

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

### **ARYL POLYETHER POLYOL**

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

### **Engineering Controls**

Toxic and corrosive liquid. Single significant exposure may cause death. Maintain adequate ventilation at all times. Prevent accumulation of gas(es) in hollows or sumps. Eliminate any sources of ignition. DO NOT enter room unless monitored by another person (ie buddy-buddy system). Sampling of the atmosphere if possible should be conducted automatically, for example, by use of sensors, instead of human operator and any leaks discovered should then be directed digitally to a command centre where the event can be acted upon, with all appropriate procedures being implemented and including any protective equipment as outlined in this MSDS.

### **Personal Protection Equipment**

**CLOTHING:** PVC, Nitrile, Neoprene, Natural rubber or any other type of apron or splash suit as recommended by the manufacturer.

**GLOVES:** PVC, Nitrile, Neoprene, Natural rubber or any other type of glove as recommended by the manufacturer.

**EYES:** Chemical goggles or faceshield to protect eyes.

**RESPIRATORY PROTECTION:** Avoid breathing of gases. Select and use respirators in accordance with AS/NZS 1715/1716. When gases 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.

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>	Amber coloured liquid
<b>Boiling Point Melting Point:</b>	Not determined
<b>Vapour Pressure:</b>	Not determined
<b>Specific Gravity:</b>	1.01 @ 20 °C
<b>Flash Point:</b>	Not determined
<b>Flammability Limits:</b>	Not determined
<b>Solubility in Water:</b>	Not determined

### **Other Properties**

None

## 10. STABILITY AND REACTIVITY

### **STABILITY:**

Stable under normal conditions of use.

### **HAZARDOUS DECOMPOSITION PRODUCTS:**

Emits acrid smoke and fumes when heated to decomposition.

### **HAZARDOUS POLYMERIZATION:**

Will not occur.

### **INCOMPATIBILITIES:**

Strong alkalis, acids, nitrates and oxidizing agents.



# Material Safety Data Sheet

Page 5 of 7 Issue date: July 2008

## ERASPRAY ESM700 POLYOL

### 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:

Harmful if swallowed.

Will cause burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur.

#### Eye:

Will cause burns to the eyes with effects including: Pain, tearing, conjunctivitis and if duration of exposure is long enough, blindness will occur.

#### Skin:

Harmful by skin contact.

Will cause burns to the skin, with effects including; Redness, blistering, localised pain and dermatitis.

#### Inhaled:

Harmful if inhaled.

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

#### Chronic:

Prolonged or repeated skin contact may lead to dermatitis.

Product may also be absorbed through the skin with resultant toxic effects.

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

Prolonged or repeated exposure may lead to permanent irreversible injury.

Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

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

Additional information for Chronic

#### DIETHYLTOLUENEDIAMINE [DETDA]:

Diethyltoluenediamine (DETDA) has acute oral (rat) and dermal (rabbit) LD50 values of 485 mg/kg and 700 mg/kg, respectively. A two-year feeding study (rats) showed DETDA caused adverse effects in the pancreas, liver, thyroid, and eyes. An increase in the number of tumours in the liver and thyroid of male rats, and in the liver and possibly mammary gland of female rats was found. In rare cases, sensitisation to DETDA has been reported to occur in humans.

#### Toxicological Data:

##### SEVERE EFFECTS AFTER REPEATED OR PROLONGED EXPOSURE

This substance is capable of causing serious damage to health and is determined to be a hazardous substance.

Serious damage is where a clear functional disturbance or morphological change which has toxicological significance results from repeated or prolonged exposure by an appropriate route.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

No information available for this product





# Material Safety Data Sheet

Page 7 of 7 Issue date: July 2008

## ERASPRAY ESM700 POLYOL

### 16. OTHER INFORMATION

**Date of Preparation:**

Issue date: 15 July 2008

Supersedes: None

**Reasons for Update:**

First Issue

**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**