



Material Safety Data Sheet

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Issue date: August 2008

Eraspray ESP600D Polyol

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Eraspray ESP600D Polyol

Synonym: None.

Use: Spray polyurethane elastomer polyol blend.

Era Polymers Pty Ltd

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Australia

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Emergency Advice All Hours:

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2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO NOHSC 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.

R41 Risk of serious damage to eyes.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R52/53 Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S23 Do not breathe gas/fumes/vapour/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.

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

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

S42 during spraying wear suitable respiratory protection.

S45 In case of accident or if you feel unwell, contact a doctor 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:

Avoid skin contact. Avoid eye contact. Avoid exposure. Do not swallow. Avoid release into the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
DIETHYLTOLUENE DIAMINE [DETDA]	10 to 30%	68479-98-1
POLYOXYPROPYLENEDIAMINE	10 to 30%	9046-10-0
ALIPHATIC AMINE DERIVATIVE	10 to 30%	Mixture
ORGANOTIN COMPOUND	Less than 1%	77-58-7

All other ingredients not hazardous according to NOHSC Criteria.



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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. Seek urgent medical attention.

Skin:

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

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. Seek medical attention.

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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fire may product toxic and/or corrosive fumes.

HAZCHEM CODE: 2X [Aust]

FLAMMABILITY

This product is not flammable.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Splash goggles, full suit, boots and gloves. Refer to Section 8 of the Material Safety Data Sheet for further details.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS: Corrosive liquid. Stop leak if possible to do so without risk. Absorb with dry earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent from entering sewers, basements and confined areas. Dike if necessary. Eliminate all ignition sources. Call for assistance on disposal. Neutralise the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirement. For further information on disposal, refer to Section 13 of this Material Safety Data Sheet.



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7. HANDLING AND STORAGE

HANDLING:

Keep container dry. Keep away from heat. Do not breathe gas/fumes/vapour/spray. Never add water to this product. Avoid contact with skin and eyes. Keep away from incompatibles such as acids.

STORAGE:

Keep container in a cool, dry, well-ventilated place. Keep container tightly closed and sealed until ready to use.

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:

DIETHYLTOLUENE DIAMINE [DETDA]

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

POLYOXYPROPYLENEDIAMINE

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

ALIPHATIC AMINE DERIVATIVE

No Exposure details available

ORGANOTIN COMPOUND

(Worksafe Australia)

[TWA] 0.1 mg/m³

[STEL] 0.2 mg/m³

(ACGIH)

[TWA] 0.1 mg/m³

Carcinogen Category: A4

Engineering Controls

Corrosive liquid. Single significant exposure may cause severe injury. Maintain adequate ventilation at all times. Exposure to this material may be controlled in a number of ways. Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used. Ensure that eyewash stations and safety showers are proximal to the workstation location. Ensure sufficient ventilation is available when spraying the product.

Personal Protection Equipment

CLOTHING: Wear suitable protective clothing to prevent risk of skin contact.

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

EYES: Wear protective eyewear, such as safety glasses, chemical goggles or face shield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of vapours/gases/spray. If exhaust ventilation is not available or inadequate, use approved respirator to Australia Standards. Respiratory equipment must be worn when spraying the product. 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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque white hazy liquid.
Boiling Point Melting Point:	Not determined.
Vapour Pressure:	Not determined.
Specific Gravity:	1.01 at 25°C.
Flash Point:	Not determined.



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Flammability Limits:

Not determined.

Solubility in Water:

Not determined.

Other Properties

None determined.

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Emits toxic and/or corrosive fumes including oxides of carbon and nitrogen when heated to decomposition.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

Highly reactive with acids.

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.

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

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.



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Toxicological Data:

There is no information available for this product.

Toxicological Data for Ingredient(s):

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

There is no information available fro this product.

Mobility:

There is no information available for this product.

Persistence / Degradability:

There is no information available for this product.

Chemical Fate Information:

This substance is Harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. Avoid release of this product into drains and waterways.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all relevant Local, State and Federal regulations. Dispose of material through a licensed waste contractor. Any processing, use, or contamination of this product may change the requirements for disposal. It is the responsibility of the generator of the waste to properly classify, transport and dispose of the waste.

14. TRANSPORT INFORMATION

Road Transport

UN Number: 2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS POLYOXYPROPYLENE DIAMINE)

Dangerous Goods Class: 8

Packing Group: III

Label: Harmful (Xn), Corrosive (C)

Air Transport

UN Number: 2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS POLYOXYPROPYLENE DIAMINE)

Dangerous Goods Class: 8

Packing Group: III

Label: Harmful (Xn), Corrosive (C)

Sea Transport

UN Number: 2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS POLYOXYPROPYLENE DIAMINE)

Dangerous Goods Class: 8

Packing Group: III

Label: Harmful (Xn), Corrosive (C)



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15. REGULATORY INFORMATION

Poison Schedule: S6 [Aust]

Inventory Status:

<i>Inventory</i>	<i>Status</i>
Australia (AICS)	Y

Y = all ingredients are on the inventory.

16. OTHER INFORMATION

Date of Preparation:

Issue date: 12 August 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