



# Material Safety Data Sheet

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Issue date: February 2010

## Eraspray ES81A HB Part B

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Eraspray ES81A HB Part B

**Synonym:** None

**Use:** Polyurethane Spray Curative

**Era Polymers Pty Ltd**  
**25-27 Green Street**  
**East Botany 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 NOHSC CRITERIA

**Hazard Category:** Irritant (Xi)

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

#### RISK PHRASES

R11 Highly flammable

R36/37 Irritating to eyes and respiratory system.

#### SAFETY PHRASES

S7/9 Keep container tightly closed and in a well ventilated place.

S16 Keep away from sources of ignition - No smoking.

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.

S27 Take off immediately all contaminated clothing.

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.

**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:

Irritant. Highly flammable.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
METHYL ETHYL KETONE	30 to 60%	78-93-3
PROPRIETARY SOLVENT	10 to 30%	96-48-0
URETHANE CURATIVE - NON HAZARDOUS	10 to 30%	57609-64-0

All other ingredients not hazardous according to NOHSC Criteria.



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### 4. FIRST AID MEASURES

**Swallowed:**

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

**Eye:**

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

**Skin:**

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

**Inhaled:**

Remove victim to fresh air. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult. Seek medical attention immediately.

**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:** Use dry chemical, carbon dioxide or foam.

**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:** 2[Y]E [Aust]

**FLAMMABILITY**

Highly 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

**EMERGENCY ACTION:**

Keep unnecessary people away. Isolate hazard area and deny entry. Stay upwind. Keep out of low areas.

**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 or HEPA vacuum system. Place into labelled drum(s) for later disposal.



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### LARGE SPILLS:

Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other 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, combustibles 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:

#### **METHYL ETHYL KETONE**

(Worksafe Australia)

[TWA] 150 ppm 445 mg/m<sup>3</sup>

[STEL] 300 ppm 890 mg/m<sup>3</sup>

References: A

(ACGIH)

[TWA] 200 ppm 590 mg/m<sup>3</sup>

[STEL] 300 ppm 885 mg/m<sup>3</sup>

#### **PROPRIETARY SOLVENT**

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

#### **URETHANE CURATIVE - NON HAZARDOUS**

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

### Engineering Controls

Highly flammable liquid. Maintain adequate ventilation at all times. Prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition. Elevated temperature or mechanical action may form vapours, mists or fumes, which may require local exhaust ventilation systems.

### Personal Protection Equipment

CLOTHING: PVC or rubber apron.

GLOVES: PVC or rubber.

EYES: 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. 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.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark wine coloured liquid
<b>Boiling Point Melting Point:</b>	BP 79.6°C
<b>Vapour Pressure:</b>	Not determined
<b>Specific Gravity:</b>	Not determined
<b>Flash Point:</b>	-4°C
<b>Flammability Limits:</b>	LFL: 0.8, UFL: 10.1
<b>Solubility in Water:</b>	24g/L @ 20°C

#### Other Properties

Volatile component = 70-80%

### 10. STABILITY AND REACTIVITY

#### STABILITY:

Stable under normal conditions of use.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Emits oxides of carbon when heated to decomposition.

#### HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions of use.

#### INCOMPATIBILITIES:

Acids, alkalis, oxidising 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:

May cause irritation to the skin, with effects including; Redness and itchiness.

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

#### Toxicological Data:

There is no other toxicological information available for this product.



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### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

There is no information available for this product.

**Mobility:**

There is no information available for this product.

**Persistence / Degradability:**

There is no information available for this product.

**Chemical Fate Information:**

There is no information available for this product, however, it may cause long term adverse effects in the environment, so avoid release into watercourses and wastewater.

### 13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Advise flammable nature. Normally suitable for disposal by approved waste disposal agent.

### 14. TRANSPORT INFORMATION

**Road Transport**

**UN Number:** 1193

**Proper Shipping Name:** ETHYL METHYL KETONE (METHYL ETHYL KETONE)

**Dangerous Goods Class:** 3

**Packing Group:** II

**Label:** Irritant (Xi)

**Air Transport**

**UN Number:** 1193

**Proper Shipping Name:** ETHYL METHYL KETONE (METHYL ETHYL KETONE)

**Dangerous Goods Class:** 3

**Packing Group:** II

**Label:** Irritant (Xi)

**Sea Transport**

**UN Number:** 1193

**Proper Shipping Name:** ETHYL METHYL KETONE (METHYL ETHYL KETONE)

**Dangerous Goods Class:** 3

**Packing Group:** II

**Label:** Irritant (Xi)

### 15. REGULATORY INFORMATION

**Poison Schedule:** S5 [Aust]

**Inventory Status:**

*Inventory Status*

Australia (AICS) Y

Y = all ingredients are on the inventory.

### 16. OTHER INFORMATION

**Date of Preparation:**

Issue date: 9 February 2010

Supersedes: January 2005



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### Reasons for Update:

Review in all sections

### 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**