

# Durotech Industries

## Material Safety Data Sheet

### **EPOXY-WEAR HARDENER**

Issue Date November 2003

**CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF NOHSC**

#### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name EPOXY-WEAR HARDENER  
Product Use Hardener Component for two pack epoxy coating  
Company Name Durotech Industries  
Address 14 Essex Street  
Minto NSW 2566 Australia.  
Emergency Tel. 0419 221 715  
Telephone No (02) 9603 1177  
Other Names Ecopoxy 306 Resin

#### 2. COMPOSITION, INFORMATION ON INGREDIENTS.

| Ingredients | Name                      | CAS         | Proportion(%) |
|-------------|---------------------------|-------------|---------------|
|             | Polyamide                 | Prop. Comp. | 40-60         |
|             | Water                     | .....       | 10-20         |
|             | Non Hazardous Ingredients | .....       | To 100%       |

#### 3. HAZARDS IDENTIFICATION

Chronic Effects Prolonged or repeated contact may result in skin sensitization.

Inhalation Inhalation of the vapours (generated at elevated temperatures) or mists can cause irritation to the nose and throat and upper respiratory tract.

Ingestion May be harmful if swallowed in large amounts. Ingestion may cause nausea, diarrhea, abdominal pain and vomiting.

Skin Irritating to skin. Frequent and prolonged contact can cause skin sensitization.

Eye Substance is irritating to the eyes. Contamination of the eyes will result in transient pain, lachrymation and redness.

#### 4. FIRST AID MEASURES

Inhalation Remove affected person from the contaminated area and seek medical advice. If not breathing apply artificial respiration and seek urgent medical advice.

|                      |  |
|----------------------|--|
| Ingestion            | Do not induce vomiting. Immediately wash out mouth with water, and then give plenty of water to drink. Seek immediate medical advice.  |
| Skin                 | If contact with the skin occurs immediately remove the contaminated clothing, and wash the affected area with soap and water. Ensure contaminated clothing is washed before re-use. If irritation persists seek immediate medical attention. |
| Eye                  | If in eye(s) wash with large amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse water into the non-affected eye. Seek immediate medical attention.   |
| First Aid Facilities | Eye wash, shower and normal washroom facilities.   |
| Advice to Doctor     | Treat symptomatically. If skin sensitization has developed and a casual relationship has been confirmed, further exposure should not be allowed.   |

## 5. FIRE FIGHTING MEASURES

|                              |   |
|------------------------------|---|
| Flash Point                  | ≥200°C                                      |
| Ignition Temperature         | Not available                               |
| Flammable Limits UEL         | Not available                               |
| Flammable Limits LEL         | Not available                               |
| Extinguishing Media          | Use foam, CO2 or powder to extinguish fire. |
| Unusual fire & explosion     | None known                                  |
| Hazards Special Instructions | Not applicable                              |

## 6. .ACCIDENTAL RELEASE MEASURES

Personal Protection Observe precautions from other sections of this Material Safety Data Sheet.

### Protection

Spills & Disposal Extinguish or remove all sources of ignition and stop leak if safe to do so. Contain the spill with sand or earth and take up with a vacuum truck or absorb with absorbent material, sand or earth. Place used absorbent in suitable sealed containers and follow state or local authority regulations and guidelines for the disposal of the waste. Clean area with detergent or water. Do not allow product to enter drains, sewers or water courses- inform local authorities if this occurs.

## 7. HANDLING AND STORAGE.

Handling Precautions Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

Precautions to be taken in storage Store away from alkalis and oxidisers. Keep in cool, dry, ventilated storage and closed containers. Avoid freezing temperatures during storage. Minimise contact with atmospheric air to prevent inoculation with micro organisms.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits None established for this product.

Personal Protective Equipment      Avoid contact with the skin and eyes, and avoid breathing vapours or mists. When exposure is likely, personal protective equipment in a combination appropriate to the degree and nature of exposure, should be selected from the following list:

1. Eye protection
2. Neoprene, butyl rubber gloves.
3. Leather boots.

#### CONTAMINATION

If contamination occurs, change clothing taking care to avoid skin contact with the contaminated area, and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse.

Observe good personal hygiene. Eye wash fountains and safety showers should be available for emergency use.

Eng. Controls      Special ventilation is not normally required due to the low volatility of the product at normal temperatures. However, in the operation of certain equipment or at elevated temperatures, mists or vapours may be generated and exhaust ventilation should be provided to maintain airborne concentration levels as low as reasonably practicable.

### 9. PHYSICAL AND CHEMICAL PROPERTITIES

|                                       |   |
|---------------------------------------|---|
| Melting Point                         | Not applicable  |
| Boiling Point                         | Not available   |
| Solubility in water                   | Water reducible   |
| Specific gravity (H <sub>2</sub> O=1) | 1.10-1.20kg/l   |
| Vapour Pressure                       | Not available   |
| Vapour Density (Air=1)                | Not available   |
| Appearance                            | Off white, homogeneous liquid with an ammoniacal odour. |
| Viscosity                             | Approx 3500 centipoise @ 25°C                           |
| Other information                     | Non available   |

### 10. STABILITY AND REACTIVITY

|                                       |   |
|---------------------------------------|---|
| Conditions to avoid                   | Not applicable                                      |
| Incompatibility                       | Oxidising agents (e.g. perchlorates, nitrates etc.) |
| Hazardous Decomposition or byproducts | Oxides of carbon and noxious smoke.                 |
| Hazardous reaction                    | Hazardous reactions will not occur.                 |

## 11. TOXICOLOGICAL INFORMATION

|            |  |  |
|------------|--|--|
| Toxicology | Acute Data                                 | Not established for this product.  |
|            | Eye Contact                                | <b>Signs and symptoms.</b><br>Cloudy appearance of the cornea, chemical burns, pain, impairment or loss of vision.   |
|            | • Chemical related eye burns               |  |
|            | Skin Contact                               | Redness, swelling, blistering and itching.<br>Change in skin pigmentation and or colouration.<br>Redness, swelling, itching, dryness, cracking, blistering and pain. |
|            | • Allergic skin effects                    |  |
|            | • Dermal effects                           |  |
|            | • Severe skin irritations                  |  |
|            | Inhalation                                 | Cough, sneezing, nasal discharge headache, hoarseness and nose and throat pain.  |
|            | • Upper respiratory tract irritation       |  |
|            | Ingestion                                  | Pain, abdominal tenderness, nausea, diarrhoea and vomiting.  |
|            | • Irritation to the Gastrointestinal tract |  |
|            | Reproductive effects                       | None known. Does not contain chemicals implicated in adverse reproductive effects.   |
|            | Other information                          | Not established for this product.  |

## 12. ECOLOGICAL INFORMATION

Information on ecological effects      Not established for this product.

## 13. DISPOSAL CONSIDERATIONS.

Waste disposal method      Follow state or local authority regulations and guidelines for the disposal of the waste. Clean area with detergent and water. Do not allow product to enter drains, sewers or water courses- inform the local authorities if this occurs.

#### 14. TRANSPORT INFORMATION.

|                  |  |
|------------------|--|
| UN No            | None allocated   |
| Shipping Name    | None allocated   |
| DG Class         | None allocated   |
| Hazchem Code     | None allocated   |
| Transport        | Harmful to aquatic organisms; may cause long term effects in the aquatic environment (R52/53). Irritating to skin (R38). Risk of serious damage to eyes (R41). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear eye/face protection (S39). Avoid release to the environment. |
| Subsidiary risk  | None allocated.  |
| Packing group    | None allocated   |
| Poisons schedule | None allocated.  |

#### 15. REGULATORY INFORMATION

|               |   |
|---------------|---|
| Risk phrase   | R34 Causes burns<br>R38 Irritating to eyes and skin.<br>R41 Risk of serious eye damage.<br>R43 May cause sensitization by skin contact.<br>R51 Toxic to aquatic organisms.<br>R53 May cause long term adverse effects in the aquatic environment. |
| Safety phrase | S25 Avoid contact with eyes.<br>S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.<br>S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.      |

#### 16. OTHER INFORMATION

|                  |   |
|------------------|---|
| Contact          | National 24hr Emergency Response 0419 221 715   |
| Issue Date       | November 2003   |
| Previous issue   | October 2002  |
| Version          | 3   |
| Reason for issue | Update in 16 header format using latest supplier MSDS information.                                |
| References       | For detailed advice on Personal Protective equipment refer to the following Australian Standards: |

- HB 9 (Handbook 9) Manual of Industrial Personal Protection
- AS 1337 Eye protectors for industrial applications
- AS 1715 Selection, use and maintenance of respiratory protective devices

Sources of Data

Suppliers MSDS for component ingredients

National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011(2003)]

Approved criteria for Classifying Hazardous Substances. [NOHSC:1008(1999)].

**End of MSDS.**