

# DANLAID CONTRACTING PTY. LTD

## COMBINED MATERIAL SAFETY DATA SHEET

### Section 1 – Identification of Chemical Product & Company

**ABN:** 76079777914  
**Telephone:** 03 8514 6300  
**Facsimile:** 03 8514 6310  
**Address:** 43 De Havilland Rd,  
Mordialloc  
Vic 3195  
Australia

**Product Name:** DE400 & CR Epoxy Series Part A

**Product Use:** In conjunction with epoxy hardeners for protection of concrete

**Description:** Paint (Pigmented Epoxy resin and Xylene)

**Manufacturer's Code:** F286

### Section 2 – Hazards Identification

This product is classified as: Hazardous according to criteria of Worksafe Australia

**U.N. Number:** 1263  
**Hazchem Code:** 3[Y]  
**Poisons Schedule:** 5

**Dangerous Goods Class:** 3  
**Risk:** Flammable



**RISK PHRASES:**

|           |  |
|-----------|--|
| R10       | Flammable  |
| R20/21    | Harmful by inhalation and in skin contact  |
| R36/37/38 | Irritating to eyes, respiratory system and skin                                    |
| R43       | May cause sensitisation by skin contact  |
| R48/20    | Dangerous of serious damage to health through prolonged inhalation of sanding dust |

**SAFETY PHRASES:**

|           |  |
|-----------|--|
| S16       | Keep away from sources of ignition - No smoking                    |
| S24/25    | Avoid contact with skin and eyes                                   |
| S23       | Do not breathe dust when sanding                                   |
| S29       | Do not empty into drains.  |
| S36/37/39 | Wear suitable protective clothing, gloves and eye face protection. |
| S38       | If insufficient ventilation use suitable respiratory equipment.    |

### Section 3 – Composition / Information on Ingredients

#### HAZARDOUS INGREDIENTS: Standard Grade:

| Chemical Entity   | C.A.S. No.  | Haz | R-phrases    | Concentration |
|---|-------------|-----|--------------|---------------|
| Bisphenol A epoxy resin                                 | 025085-99-8 | Xi  | R36/38-R43   | 30% - 60%     |
| Inert filler  | 014808-60-7 | Xn  | R48/20       | 30% - 60%     |
| Xylene  | 001330-20-7 | F   | R10-20/21-38 | 10% - < 30%   |
| Non-hazardous ingredients or those below cut off limits |             |     |              | to 100%       |

## **HAZARDOUS INGREDIENTS: Novolac Grade:**

| <b>Chemical Entity</b>                                  | <b>C.A.S. No.</b> | <b>Haz</b> | <b>R-phrases</b> | <b>Concentration</b> |
|---|-------------------|------------|------------------|----------------------|
| Epoxy Novolac resin                                     | 028064-14-4       | Xi         | R36/38-R43       | 30% - 60%            |
| Inert filler  | 014808-60-7       | Xn         | R48/20           | 30% - 60%            |
| Xylene  | 001330-20-7       | F          | R10-20/21-38     | < 10%                |
| Non-hazardous ingredients or those below cut off limits |                   |            |                  | to 100%              |

## **Section 4 – First Aid Measures**

**Inhalation:** If effects occur, remove to fresh air. Seek Medical attention.

**Skin Contact:** Wash skin thoroughly with soap and flowing water for 15 minutes. **DO NOT** use solvents to remove product from skin. It is recommended to remove contaminated clothing immediately. Wash clothing thoroughly before re-use. Discard contaminated footwear.

**Eye Contact:** Hold eyes open and wash thoroughly with flowing water for 15 minutes. Seek prompt medical attention by a doctor.

**Swallowed:** Do **NOT** induce vomiting. Give glass of water. Call a doctor and/or transport to a hospital promptly.

### **ADVICE TO DOCTOR**

No specific antidote. Supportive care. Treatment based on the judgement of the doctor in response to the reactions of the patient. Treat symptomatically.

## **Section 5 – Fire Fighting Measures**

### **FLAMMABILITY**

Flammable liquid. Will support combustion.

**Flash Point:** 24 Deg C PMCC

**Flammability Limits:** Not Applicable

**Hazchem Code:** 3[Y]

### **FIRE/EXPLOSION HAZARD**

Extinguish with foam, water, dry chemical or carbon dioxide. Drums may rupture when exposed to fire conditions. Wear positive pressure self-contained breathing apparatus. Decomposition products include phenolics, carbon monoxide and water.

## **Section 6 – Accidental Release Measures**

### **SPILLS AND DISPOSAL**

Soak up in an absorbent material, such as sand, sawdust or absorbent clay. Place in secure container for disposal. Burn in an adequate incinerator or bury in an approved landfill in accordance with State and/or Local government regulations.

## **Section 7 – Handling & Storage**

### **HANDLING**

Refer to Section 8 of this MSDS for details of personal protection measures.

### **STORAGE**

Store in cool place away from heat and ignition sources. Keep partially used product containers closed. Store away from foodstuffs, clothing and keep out of reach of children. Store away from amines.

**Section 8 – Exposure Controls / Personal Protection**

|                                |              |           |
|--------------------------------|--------------|-----------|
| <b>EXPOSURE LIMITS:</b> Xylene | TWA 80 ppm   | 350 mg.m3 |
|                                | STEL 150 ppm | 655 mg.m3 |
| Silica                         | 0.3 mg / m3  |           |

**VENTILATION:** Provide general and / or local exhaust Ventilation, depending on type of operations, to control airborne exposures.

**PERSONAL PROTECTIVE EQUIPMENT**

**Respiratory:** Not required for normal operations. For emergency conditions, use an approved positive pressure self-contained breathing apparatus.

**Hands:** Wear body-covering clothing. Protect hands with impervious gloves when handling or using this product. Wear boots.

**Eyes:** Wear chemical goggles. Eye wash facilities should be located in the immediate work area. Selection and the use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian Standards, including:

|              |   |
|--------------|---|
| AS 1336:     | Recommended practices for eye protection in the industrial environment.         |
| AS/NZS 1337: | Eye protectors for industrial application.                                      |
| AS/NZS 1715: | Selection, use and maintenance of respiratory protective devices.               |
| AS 2161:     | Industrial safety gloves and mittens (excluding electrical and medical gloves). |
| AS/NZS 2210: | Occupational protective footwear.   |
| AS 2919:     | Industrial clothing.  |

**BIOLOGICAL LIMIT:** No biological limit allocated

**Section 9 – Physical & Chemical Properties**

|  |  |
|--|--|
| <b>Appearance:</b> Coloured            | <b>Percent Volatile:</b> 10%               |
| <b>Odour:</b> Xylene                   | <b>Specific Gravity:</b> 1.70              |
| <b>pH:</b> Not Determined              | <b>Flammability Limits:</b> Not Applicable |
| <b>Vapour Pressure:</b> Not Determined | <b>Boiling Point:</b> Not Determined       |
| <b>Vapour Density:</b> Not Determined  | <b>Flash Point:</b> 24 Deg C PMCC          |
| <b>Auto Ignition:</b> Not Determined   |  |

**Section 10 – Stability & Reactivity****STABILITY / INSTABILITY**

Stable under recommended storage conditions. Refer to Section 7 of this MSDS.

**Section 11 – Toxicological Information****Short Term Hazards (Acute Exposure):**

**Inhaled:** May cause irritation to the nose, throat and respiratory system with effects including: Dizziness, headache and loss of co-ordination.

**Skin Contact:** A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

**Eye Contact:** May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

**Swallowed:** May cause irritation to mouth, throat and stomach with effects including irritation to the tongue and lips and pains in the stomach.

**Long Term Hazards (Chronic Exposure):**

**Inhaled:** Prolonged exposure to high concentrations of vapour may affect the central nervous system.

**Skin Contact:** Product may be a skin sensitiser in some individuals.

**Eye Contact:** Corneal injury.

**Systematic and other effects:** Diglycidyl ether of Bisphenol A (Base epoxy resin) that is representative of the current manufacturing process is not believed to be a cancer hazard to humans. Did not cause birth defects or other adverse effects on the foetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some "in vitro" (test tube) mutagenicity tests and positive in others.

## Section 12 – Ecological Information

Do not release this product or chemically contaminated water containing this product into drains, soils or surface water. Sufficient measures must be taken to retain the water used in extinguishing any fires involving this product.

## Section 13 – Disposal Considerations

**Disposal:** Place in secure container for disposal. Burn in an adequate incinerator or bury in an approved landfill in accordance with State and/or Local government regulations.

## Section 14 – Transport Information

This product is not classified as a dangerous good in the Australian Dangerous Goods Code by reference to a specific substance name or a generic substance name or group.

**U.N. Number:** 1263

**Dangerous Goods Class:** 3

## Section 15 – Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

# DANLAID CONTRACTING PL

## COMBINED MATERIAL SAFETY DATA SHEET

### Section 1 – Identification of Chemical Product & Company

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**Telephone:** 03 8514 6300  
**Facsimile:** 03 8514 6310  
**Address:** 43 De Havilland Rd  
Mordialloc  
Vic 3195  
Australia

**Product Name:** DE400 & CR Epoxy Series Part B (all grades)

**Product Use:** Curing Agent for Danlaid DE400 & CR epoxy Paint Part A Standard & Novolac

**Description:** Formulated polyamine adduct

**Manufacturer's Code:** F259

### Section 2 – Hazards Identification

This product is classified as: Hazardous according to criteria of Worksafe Australia

**U.N. Number:** 1760  
**Hazchem Code:** 2X  
**Poisons Schedule:** 5

**Dangerous Goods Class:** 8  
**Subsidiary Risk:** None



**RISK PHRASES:**

|        |  |
|--------|--|
| R21/22 | Harmful by contact with skin and if swallowed. |
| R34    | Causes burns                                   |
| R43    | May cause sensitisation by skin contact        |

**SAFETY PHRASES:**

|           |  |
|-----------|--|
| S24/25    | Avoid contact with skin and eyes.  |
| S26       | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.              |
| S36/37/39 | Wear suitable protective clothing, gloves and eye face protection.   |
| S38       | In case of insufficient ventilation, wear suitable respiratory equipment.                                  |
| S45       | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) |

### Section 3 – Composition / Information on Ingredients

#### HAZARDOUS INGREDIENTS

| Chemical Entity   | C.A.S. No.  | Haz | R-phrases      | Concentration |
|---|-------------|-----|----------------|---------------|
| Isophorone Diamine                                      | 002855-13-2 | C   | R21/22-R34-R43 | 30% - 60%     |
| M-Xylene Diamine  | 001477-55-0 | C   | R20/22-R34     | 10 - < 30%    |
| Benzyl Alcohol  | 000100-51-6 | Xn  | R20/22         | 30% - 60%     |
| Non-hazardous ingredients or those below cut off limits |             |     |                | to 100%       |

### Section 4 – First Aid Measures

**Inhaled:** If effects occur, remove to fresh air. Seek Medical attention.

**Skin Contact:** Wash skin thoroughly with soap and flowing water for 15 minutes. **DO NOT** use solvents to remove product from skin. It is recommended to remove contaminated clothing immediately. Wash clothing thoroughly before re-use. Discard contaminated footwear. Obtain medical attention promptly.

**Eye Contact:** Hold eyes open and wash thoroughly with flowing water for 15 minutes. Seek prompt medical attention by a doctor.

**Swallowed:** Do **NOT** induce vomiting. Give glass of water. Call a doctor and/or transport to a hospital promptly.

### **ADVICE TO DOCTOR**

Main ingredient of this formulation is corrosive to tissue. If product in eyes, check for corneal injury. The decision of whether to induce vomiting should be made by the attending physician. If burn present, suggest treatment as a thermal burn after decontamination. Human effects not established for this product. No specific antidote. Treatment based on the sound judgement of the physician and the individual reactions of the patient.

## **Section 5 – Fire Fighting Measures**

### **FLAMMABILITY**

Non-Flammable liquid. Will support combustion.

**Flash Point:** 112 Deg C PMCC

**Hazchem Code:** 2X

**Flammability Limits:** Not Determined

### **FIRE/EXPLOSION HAZARD**

Extinguish with foam, water, dry chemical or carbon dioxide. Drums may rupture when exposed to fire conditions. Ammonia is a product of decomposition. Wear positive pressure self-contained breathing apparatus. The amine type component of this product will decompose at temperatures above 260 Deg C and generate ammonia.

## **Section 6 – Accidental Release Measures**

### **SPILLS AND DISPOSAL**

Soak up in an absorbent material, such as sand, sawdust or absorbent clay. Place in secure container for disposal. Burn in an adequate incinerator or bury in an approved landfill in accordance with State and/or Local government regulations.

## **Section 7 – Handling & Storage**

### **HANDLING**

Refer to Section 8 of this MSDS for details of personal protection measures.

### **STORAGE**

Store in cool place away from heat and ignition sources. Keep partially used product containers closed. Store away from foodstuffs, clothing and keep out of reach of children.

## **Section 8 – Exposure Controls / Personal Protection**

**EXPOSURE LIMITS:** Not established for product or individual components.

**VENTILATION:** Provide general and / or local exhaust ventilation, depending on type of operations, to control airborne exposures.

## **PERSONAL PROTECTIVE EQUIPMENT**

**Respiratory:** Not required for normal operations. For emergency conditions, use an approved positive pressure self-contained breathing apparatus.

**Hands:** Wear body-covering clothing. Protect hands with impervious gloves when handling or using this product. Wear boots.

**Eyes:** Wear chemical goggles. Eye wash facilities should be located in the immediate work area.

Selection and the use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian Standards, including:

|              |   |
|--------------|---|
| AS 1336:     | Recommended practices for eye protection in the industrial environment.         |
| AS/NZS 1337: | Eye protectors for industrial application.                                      |
| AS/NZS 1715: | Selection, use and maintenance of respiratory protective devices.               |
| AS 2161:     | Industrial safety gloves and mittens (excluding electrical and medical gloves). |
| AS/NZS 2210: | Occupational protective footwear.   |
| AS 2919:     | Industrial clothing.  |

**BIOLOGICAL LIMIT:** No biological limit allocated

## **Section 9 – Physical & Chemical Properties**

|  |  |
|--|--|
| <b>Appearance:</b> Clear liquid        | <b>Percent Volatile:</b> < 1%              |
| <b>Odour:</b> Slightly ammoniacal      | <b>Specific Gravity:</b> 1.00 - 1.06       |
| <b>pH:</b> Not Determined              | <b>Flammability Limits:</b> Not Determined |
| <b>Vapour Pressure:</b> Not Determined | <b>Boiling Point:</b> Not Determined       |
| <b>Vapour Density:</b> Not Determined  | <b>Flash Point:</b> 112 Deg C PMCC         |
| <b>Auto Ignition:</b> Not Determined   |  |

## **Section 10 – Stability & Reactivity**

**Chemical Stability:** This product is unlikely to react or decompose under normal storage conditions.

**Hazardous decomposition products:** The amine type component of this product will decompose at temperatures above 260 Deg C and generate ammonia.

## **Section 11 – Toxicological Information**

### **Short Term Hazards (Acute Exposure):**

**Inhaled:** Not expected to be an inhalation hazard by this route, due to the low vapour pressures of the components at ambient temperatures.

**Skin Contact:** May cause severe irritation and possibly burns.

**Eye Contact:** Based on data available for the components of this product, eye contact may result in severe eye irritation and corneal injury, which may be permanent.

**Swallowed:** Single dose oral toxicity has not been determined for this formulation. Single dose oral toxicity is expected to be low, based on information available for each item.

### **Long Term Hazards (Chronic Exposure):**

**Inhaled:** Prolonged exposure to high concentrations of vapour may affect the central nervous system.

**Skin Contact:** Product will cause severe irritation and burns. Product may be a skin sensitiser in some individuals.

**Eye Contact:** Corneal injury.

**Swallowed:** Product may cause severe irritation and burns to the digestive tract.

## Section 12 – Ecological Information

LC50 (24h) Daphnae: 42 mg/L.  
LD50 (48h) Leuciscus idus: 185 mg/L.  
NOEC (21day) Daphnia magna: 3 mg/L  
EC10 (16hr) Pseudomonas putida: 1120 mg/L  
Persistence/Biodegradability: 42% (DOC, OECD 303A)  
8.0% (DOC, Die away test -9/69/EEC)

## Section 13 – Disposal Considerations

**Disposal:** Place in secure container for disposal. Burn in an adequate incinerator or bury in an approved landfill in accordance with State and/or Local government regulations.

## Section 14 – Transport Information

**Substance Name:** CORROSIVE LIQUID n.o.s  
**U.N. Number:** 1760  
**Dangerous Goods Class:** 8  
**Hazchem Code:** 2X  
**Packing Group:** III EPG8

## Section 15 – Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

## Section 16 – Other Information

### ACRONYMS

**AICS:** Australian Inventory of Chemical Substances  
**CAS Number:** Chemical Abstracts Service Registry Number  
**Hazchem Code:** Emergency action code that provides information to emergency services  
**UN Number:** United Nations Number

**CONTACT:** Danlaid Contracting Pty. Ltd      03 8514 6300  
**Date of issue:** August 19, 2011

### IMPORTANT NOTE:

**Data quoted is typical for the product, but does not constitute a specification, and is based on the most accurate information available to Danlaid Contracting P/L at the time of writing. All information contained herein is given in good faith, but is subject to change without notice.**

This MSDS has been prepared in alignment with the NOHSC document *National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition* [NOHSC: 2011(2003)]