



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product Identifier

Product Name EPOXY EP1000 ACR™ PART B  
Synonyms NOVOLAC EPOXY HARDENER PART B

#### 1.2 Uses and uses advised against

Uses CURING AGENT • HARDENER FOR EPOXY RESIN SYSTEM

#### 1.3 Details of the Supplier of the Product

Supplier Name DURABLE CONCRETE COATINGS PTY LTD  
ABN 48 602 499 052  
Address Unit 2, 100 Kingston Road, Underwood, QLD, 4119, Australia  
Telephone 1300 800 054  
Email [info@durableconcretecoatings.com.au](mailto:info@durableconcretecoatings.com.au)  
Website <http://www.durableconcretecoatings.com.au>

#### 1.4 Emergency Telephone Numbers

Poison Information Centre 13 11 26

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

#### GHS Classifications

Acute Toxicity: Oral: Category 4  
Skin Corrosion/Irritation: Category 1B  
Skin Sensitisation: Category 1  
Serious Eye Damage/Eye Irritation: Category 1  
Acute Toxicity: Inhalation: Category 4  
Aquatic Toxicity (Chronic): Category 3

#### 2.2 Label Elements

##### Signal Word

DANGER

##### Pictograms



#### Hazard Statements

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H412 Harmful to aquatic life with long lasting effects.

#### Prevention Statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response Statements

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**PRODUCT NAME EPOXY NOVOLAC EP1000 ACR™ PART B**

P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor/physician.
P321	Specific treatment is advised - see first aid instructions.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before re-use.

**Storage Statements**

P405 Store locked up.

**Disposal Statements**

P501 Dispose of contents/container in accordance with relevant regulations.

**2.3 Other Hazards**

No information provided.

**3. COMPOSITION/INFORMATION OF INGREDIENTS****3.1 Substances / Mixtures**

Ingredient	CAS Number	EC Number	Content
PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE	38294-64-3	500-101-4	10-30%
PHENOL, STYRENATED	61788-44-1	262-975-0	5-20%
BENZENEMETHANOL	100-51-6	202-859-9	1-20%
1,3-XYLENEDIAMINE	1477-55-0	216-032-5	1-5%

**Ingredient Notes**

Ingredients (not listed above) are considered trade secret and determined not to be hazardous, below cut off limits, or do not affect classifications.

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>First aid facilities</b>	Eye wash facilities and safety shower should be available.

**4.2 Most important symptoms and effects, both acute and delayed**

Causes burns. May cause sensitisation by skin contact.

**4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

**5. FIRE FIGHTING MEASURES****5.1 Extinguishing media**

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

**5.2 Special hazards arising from the substance or mixture**

Combustible. May evolve toxic gases (carbon/nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.

## PRODUCT NAME EPOXY NOVOLAC EP1000 ACR™ PART B

### **5.3 Advice for firefighters**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### **5.4 Hazchem code**

•2X

•2

X

Fine Water Spray.

Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.

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## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

### **6.2 Environmental precautions**

Prevent product from entering drains and waterways.

### **6.3 Methods of cleaning up**

Contain spillage, then cover/absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

### **6.4 Reference to other sections**

See sections 8 and 13 for exposure controls and disposal.

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## **7. HANDLING AND STORAGE**

### **7.1 Precaution for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Store as a Class C2 Combustible Liquid (AS1940).

### **7.3 Specific end uses**

No information provided.

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## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1 Control parameters**

#### **Exposure Standards**

No exposure standards have been entered for this product.

#### **Biological Limits**

No biological limit values have been entered for this product.

### **8.2 Exposure controls**

#### **Engineering controls**

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

#### **PPE**

##### **Eye/Face**

Wear splash-proof goggles

##### **Hands**

Wear viton (R) or nitrile gloves

##### **Body**

Wear coveralls.

##### **Respiratory**

Where an inhalation risk exists, wear a Type A (Organic Vapour) respirator. If sanding dry product, wear a Class P1 (Particulate) respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	CLEAR SLIGHT AMBER COLOURED LIQUID
Odour	AMINE LIKE ODOUR
Flammability	CLASS C2 COMBUSTIBLE
Flash Point	NOT AVAILABLE
Boiling Point	NOT AVAILABLE
Melting Point	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE
pH	NOT AVAILABLE
Vapour Density	NOT AVAILABLE
Specific Gravity	0.98 - 1.04
Solubility (water)	INSOLUBLE
Vapour Pressure	NOT AVAILABLE
Upper Explosion Limit	NOT AVAILABLE
Lower Explosion Limit	NOT AVAILABLE
Partition Coefficient	NOT AVAILABLE
Autoignition Temperature	NOT AVAILABLE
Decomposition Temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive Properties	NOT AVAILABLE
Oxidising Properties	NOT AVAILABLE
Odour Threshold	NOT AVAILABLE

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization is not expected to occur.

### 10.4 Conditions to avoid

Avoid temperatures above 300°C. Potentially violent decomposition can occur above 350°C.

### 10.5 Incompatible materials

Incompatible with oxidising agents (eg hypochlorites), acids (eg nitric acid), alkalis (eg sodium hydroxide), heat and ignition sources.

### 10.6 Hazardous decomposition products

May evolve toxic gases (carbon/nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity** Harmful if swallowed and in contact with skin. Ingestion may result in burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Information available for the ingredients:

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
PHENOL, STYRENATED	2000mg/kg (rat)	1840mg/kg (rat)	4178mg/kg (rat)
BENZENEMETHANOL	2000mg/kg (rat)	1840mg/kg (rat)	4178mg/kg (rat)
1,3-XYLENEDIAMINE	>200mg/kg (rat)	1840mg/kg (rat)	1750mg/kg (rat)

**PRODUCT NAME EPOXY NOVOLAC EP1000 ACR™ PART B**

<b>Skin</b>	Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns.
<b>Eye</b>	Causes burns. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
<b>Sensitisation</b>	May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser.
<b>Mutagenicity</b>	Not classified as a mutagen.
<b>Carcinogenicity</b>	Not classified as a carcinogen.
<b>Reproductive</b>	Not classified as a reproductive toxin.
<b>STOT - single exposure</b>	Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties, ulceration, pulmonary oedema and unconsciousness.
<b>STOT - repeated exposure</b>	Not classified as causing organ damage from repeated exposure. Adverse effects are generally associated with single exposure.
<b>Aspiration</b>	Not classified as causing aspiration.

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**12. ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

Harmful to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Other adverse effects**

No information provided.

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**13. DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

**Waste disposal** Mix components together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer/supplier for additional information (if required). Prevent contamination of drains and waterways as environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

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**14. TRANSPORT INFORMATION**

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**CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**



	<b>LAND TRANSPORT (ADG)</b>	<b>SEA TRANSPORT (IMDG/IMO)</b>	<b>AIR TRANSPORT (IATA/ICAO)</b>
<b>14.1 UN Number</b>	1760	1760	1760
<b>14.2 Proper Shipping Name</b>	CORROSIVE LIQUID, N.O.S. (polyamines)	CORROSIVE LIQUID, N.O.S. (polyamines)	CORROSIVE LIQUID, N.O.S. (polyamines)
<b>14.3 Transport Hazard Class</b>	8	8	8
<b>14.4 Packing Group</b>	II	II	II

**14.5 Environmental hazards**

Not a Marine pollutant.

## PRODUCT NAME EPOXY NOVOLAC EP1000 ACR™ PART B

### 14.6 Special precautions for user

Hazchem code	•2X
GTEPG	8A1
EMS	F-A, S-B

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule	Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Classifications	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals
Inventory Listings	<b>AUSTRALIA: AICS (Australian Inventory of Chemical Substances)</b> All components are listed on AICS, or are exempt.

## 16. OTHER INFORMATION

Additional information	WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT: If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal Fume) respirator and depending on the nature of the surface being welded, additional protection (eg for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.
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RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

### Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m <sup>3</sup>	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)

**PRODUCT NAME EPOXY NOVOLAC EP1000 ACR™ PART B**

STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

**Report status**

This document has been compiled by DSC in good faith from the best information available at the time of issue. It is based on the present level of research and on behalf of the manufacturer, importer or supplier of the raw materials, or products and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to DSC by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

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