



**SAFETY DATA SHEET**

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**1.1 Product Identifier**

**Product Name** WATER BASED EPOXY WEP50 HB® PART B HARDENER  
**Synonyms** EPOXY WEP50 HB PART B • WATER BASED EPOXY HARDENER PART B • WATER BASED EPOXY PART B

**1.2 Uses and uses advised against**

**Uses** PROTECTIVE COATING • EPOXY RESIN SYSTEM  
 Used in conjunction with Water Based Epoxy WEP50 HB Part A

**1.3 Details of the Supplier of the Product**

**Supplier Name** DURABLE CONCRETE COATINGS PTY LTD  
**ABN** 48 602 499 052  
**Address** 10 Lapis Street, Underwood, QLD, 4119, Australia  
**Telephone** +61 7 3808 2769  
**Email** [sales@durableconcretecoatings.com.au](mailto:sales@ 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** Skin Corrosion/Irritation: Category 2  
 Skin Sensitisation: Category 1  
 Serious Eye Damage/Eye Irritation: Category 2A  
 Aquatic Toxicity (Chronic): Category 2

**2.2 Label Elements**

**Signal Word**  
**Pictograms**

**DANGER**



**Hazard Statements**

H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H411 Toxic to aquatic life with long lasting effects.

**Prevention Statements**

P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.  
 P264 Wash hands, forearms and face thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 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**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P321 Specific treatment is advised - see first aid instructions.

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P330 Rinse mouth.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before re-use.  
P391 Collect spillage.

**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.

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**3. COMPOSITION/INFORMATION OF INGREDIENTS**

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**3.1 Substances / Mixtures**

Ingredient	CAS Number	EC Number	Content
BISPHENOL-A-(EPICHLORHYDRIN), REACTION	25068-38-6	500-033-5	>60%
1,4-BIS(2,3 EPOXYPROPOXY)BUTANE; BUTANEDIOLDIGLYCIDYL ETHER	2425-79-8	219-371-7	10-30%
FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL) OXIRANE AND PHENOL	9003-36-5	500-006-8	<10%

**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.

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**4. FIRST AID MEASURES**

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**4.1 Description of first aid measures**

**First Aid General** Call a poison center or a doctor if you feel unwell.  
**Eye** 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.  
**Inhalation** 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.  
**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If skin irritation or rash occurs; Get medical advice/attention. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.  
**Ingestion** Rinse mouth. For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.  
**First aid facilities** Eye wash facilities and safety shower should be available.

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

Irritating to the eyes and skin. May cause sensitisation by skin contact. May cause an allergic skin reaction. Serious damage to eyes.

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

Treat symptomatically.

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**5. FIRE FIGHTING MEASURES**

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**5.1 Extinguishing media**

Dry agent, carbon dioxide, foam or water spray/fog. Prevent contamination of drains and waterways.

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

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

**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

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(SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**5.4 Hazchem code**

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**6. ACCIDENTAL RELEASE MEASURES**

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**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. Avoid breathing dust/fumes/gas/mist/vapours/spray. 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**

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**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. Avoid breathing dust/fumes/gas/mist/vapours/spray. Wear personal protective equipment.

**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. Check regularly for leaks or spills. Large storage areas should be bunded and have appropriate fire protection and ventilation systems. Store away from incompatible materials and foodstuff containers.

**7.3 Specific end uses**

No information provided.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**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.

**PPE**

**Eye/Face**

Wear splash-proof goggles

**Hands**

Wear viton (R) or nitrile gloves

**Body**

Wear coveralls. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls.

**Respiratory**

Where an inhalation risk exists, wear a Type A (Organic Vapour) respirator. If sanding dry product, wear a Class P1 or P2 (Particulate) respirator.



**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance	CLEAR LIQUID
Odour	SLIGHT ODOUR
Flammability	NOT AVAILABLE
Flash Point	154°C (cc)
Boiling Point	NOT AVAILABLE
Melting Point	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE
pH	NOT AVAILABLE
Vapour Density	NOT AVAILABLE
Specific Gravity	1.09 to 1.31
Solubility (water)	SLIGHTLY SOLUBLE
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 (cSt)	2000
Explosive Properties	NOT AVAILABLE
Oxidising Properties	NOT AVAILABLE
Odour Threshold	NOT AVAILABLE
VOC	< 0g/L

**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 heat, sparks, open flames and other ignition sources. Avoid temperatures above 300°C. Potentially violent decomposition can occur above 350°C.

**10.5 Incompatible materials**

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

**10.6 Hazardous decomposition products**

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

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity** Based on available data, the classification criteria are not met. Acute exposure may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness.

**Information available for the ingredients:**

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
BISPHENOL-A-(EPICHLORHYDRIN), REACTION	>2000mg/kg (rat)	>2000mg/kg (rat)	-
1,4-BIS(2,3 EPOXYPROPOXY)BUTANE; BUTANEDIOLDIGLYCIDYL ETHER	1134mg/kg (rat)	1130mg/kg (rabbit)	-
FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL) OXIRANE AND PHENOL	5000mg/kg (rat)	2000mg/kg (rat)	-

**Skin** Contact may result in irritation, redness, rash, dermatitis and possible burns.

**Eye** Causes serious eye damage. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis and possible burns.

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**Sensitisation** May cause an allergic skin reactions. Insufficient data for classification as a respiratory sensitiser.

**Mutagenicity** Not classified as a mutagen.

**Carcinogenicity** Not classified as a carcinogen.

**Reproductive** Not classified as a reproductive toxin.

**STOT - single exposure** Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in dizziness, drowsiness and breathing difficulties.

**STOT - repeated exposure** Not classified as causing organ damage from repeated exposure. Adverse effects are generally associated with single exposure.

**Aspiration** Not classified as causing aspiration.

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**12. ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

This product is not readily biodegradable.

**12.3 Bioaccumulative potential**

Bioconcentration potential is moderate.

**12.4 Mobility in soil**

Potential for mobility in soil is low.

**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**

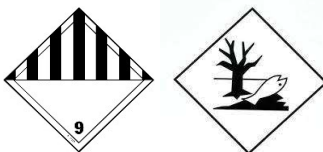
Dispose of in accordance with relevant local legislation.

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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>	None allocated	3082	3082
<b>14.2 Proper Shipping Name</b>	NONE ALLOCATED	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>14.3 Transport Hazard Class</b>	None allocated	9	9
<b>14.4 Packing Group</b>	None allocated	III	III

**14.5 Environmental hazards**

Marine pollutant.

**14.6 Special precautions for user**

**Hazchem code** +3Z

**GTEPG** 9C1

**EMS** F-A, S-F

**Other Information** UA01 NOT REGULATED

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Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the Australian Dangerous Goods Code when transported by road or rail in;  
(a) packagings;  
(b) IBC's; or  
(c) any other receptacle not exceeding 500kg(L).  
- Australian Special Provisions (SP AU01) - ADG Code 7th Ed.  
Labels Required: MISCELLANEOUS.

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**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 .

**Inventory Listings** **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**  
All components are listed on AICS, or are exempt.

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**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.

**EPOXY - PHENOXY RESINS AND POLYURETHANES:** Where spray painting with two or more component epoxy resins or polyurethane paints is undertaken, an employee shall wear an air-line respirator, full length chemically resistant coveralls and gloves. Further, if an individual is to enter an enclosed booth where a vapour or gas curing process is occurring, an air-line respirator is required. Once cured, these resins are considered non toxic.

**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.

**SYNERGISM - ANTAGONISM:** Ingridients in this product may act together to aggravate or reduce adverse effects. Accordingly the time weighted average (TWA) provided for single ingridients should be considered as a guide only and all due care exercised when handling.

**EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) OR WES (WORKPLACE EXPOSURE STANDARD) (NZ):** Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hours break between shifts exists to enable the body to eminate

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absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

**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)
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.

While DSC has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness, since conditions of use are beyond our control. As far as lawfully possible, DSC accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

**(END OF SDS)**