

MATERIAL SAFETY DATA SHEET

Classified as hazardous according to criteria of NOHSC & Worksafe Australia.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods

Code for transport by Road & Rail.

1. Product and Company identification

Product Name: TWS EP25 Epoxy Part A

Product Code: TWS EP25 Epoxy Part A

Supplier: Total Waterproofing Supplies
8 Belford Place, Cardiff NSW 2285

Phone: 02 4940 3000

Product Use: Use as the epoxy resin in 2-Pack Epoxy coatings for concrete substrate
Applied by brush and roller

2. Hazards Identification

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to NOHSC, Worksafe Australia and ADG Code.

Poisons Schedule : S5

GHS Classification : Skin Corrosion/Irritation Category 2
Eye Irritation Category 2
Skin Sensitiser Category 1B
Acute Aquatic Hazard Category 2
Chronic Aquatic Hazard Category 2

Label element :   

SIGNAL WORD : WARNING

Hazard Statements H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause an allergic skin reaction
H401 Toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements P280 Wear protective gloves, clothing, eye and face protection
P261 Avoid breathing dust, fumes, mist, vapour and spray
Prevention P273 Avoid release to the environment
P272 Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements	P321	Specific treatment.
Response	P302/P352	If on skin wash with plenty of water and soap.
	P305/P351/P338	If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P333/P313	If skin irritation or rash occurs, get medical advice/attention.
Precautionary Statement Disposal	P501	Dispose of contents/containers to authorised chemical landfill or if organic to high temperature incineration

3. Composition/Information on Ingredients

<u>Name</u>	<u>CAS Number</u>	<u>%</u>	<u>Classification</u>
Bisphenol-A Epichlorhydrin	25068-38-6	10-30	Xi: R36/38, R43 N: R51/53

4. First Aid Measures

Swallowed

No emergency medical treatment necessary. If swallowed do not induce vomiting. Give water to rinse mouth. For advice contact the Poison Information Centre or a physician.

Eye

Flush eyes with copious quantities of water for at least 15 minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several minutes. Immediately seek medical advice from a physician.

Skin

Remove all contaminated clothing/footwear and wash immediately with plenty of soap and water. Seek medical advice from a physician if irritation persists. Wash clothing before reuse.

Inhaled

Remove from contaminated area, if effects occur seek medical advice from a physician.

First Aid Facilities

Eye wash and safety shower facilities should be available.

Advice to doctor

Treat symptomatically.

5. Fire Fighting Measures

Extinguishing Media: **Fire fighting advice:**

Not combustible. Use foam, dry chemical, carbon dioxide.
Avoid contamination with oxidising agents. Fire fighters and others exposed to vapours or products of combustion should wear self-contained breathing apparatus and suitable protective clothing.

Specific hazards:

Do not use direct water stream as may spread fire. Incomplete combustion may form carbon monoxide, carbon dioxide and phenolic.

6. Accidental release measures

Minor Spills: Clean up all spills immediately. Place in a suitable labelled container for waste disposal.

Major Spills: Contain/prevent run off into drains and waterways. Contain spill with sand, earth or vermiculite. Alert Fire Brigade if necessary. Collect recoverable material and seal in properly labelled containers or drums for disposal.

7. Handling and storage

Handling: Wear suitable protective clothing, gloves and eye protection. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Avoid contact with skin and clothing. Wash thoroughly after handling. Avoid physical damage to containers.

Storage: Store in cool dry well ventilated place and out of direct sunlight. Keep containers sealed when not in use. Avoid contact with incompatible materials. Checked all containers are clearly labelled & free from leaks. Follow manufacturer's storing & handling recommendations.

8. Exposure controls/Personal protection

Occupational Exposure Limits:
No exposure limits set by NOHSC.

Engineering Control Measures:
Provide readily accessible eye wash stations and safety showers. Use under well ventilated condition. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits. If use indoors, open all windows and doors. Seal containers closed when not in use.

Personal Protection:

Eye contact Wear safety glasses.

Skin contact Use protective clothing chemically resistant to this material. Long sleeve shirt and trousers without cuffs.

Inhalation Wear appropriate respirator when ventilation is inadequate.

Hand contact Use chemically resistant gloves. Wear nitrile, neoprene or butyl rubber gloves.

9. Physical and chemical properties

PHYSICAL DESCRIPTION & PROPERTIES

Appearance	: White
Odour	: Mild
Boiling Point	: Approximately 100°C
Melting Point	: Not Applicable
Specific Gravity	: 1.26-1.28
Flash Point	: Not Applicable
Flammability Limits	: Not Applicable
Solubility in water	: Miscible with water
pH as supplied	: 7-9
Vapour pressure	: Not Applicable
Evaporation rate	: Not Applicable
Auto ignition Temp.(C)	: Not Applicable
Decomposition Temp(C)	: Not Available
VOC Level	: Zero

10. Stability and reactivity

Stability: Decomposition products depend upon temperature, air supply and presence of other materials. Gases are released during decomposition. Hazardous decomposition products include carbon monoxide, phenolic and water.

11. Toxicological Information

No adverse effects expected if the product is handled in accordance with this Safety Data Sheet and the label of this product. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

- Eye:** May cause eye irritation. Corneal injury is unlikely.
Skin: Prolonged or repeated contact may cause skin irritation. Skin sensitisation may occur.
Inhaled: Vapours are unlikely due to physical properties.
Swallowed: Harmful effects not anticipated from swallowing small amounts..

12. Ecological information

Avoid contaminating waterways and dispose of paint or washings into drains or stormwater channels. Avoid release to the environment. Material is toxic to aquatic organism.

13. Disposal considerations

Recycle wherever possible. Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Unwanted paint should be mixed with the hardener component and allowed to dry and then disposal of via domestic waste collection. Empty paint cans should be left open in a good ventilated area to dry before disposal. Consult your State Land Waste Management Authority prior to disposal.

14. Transport information**Labels Required**

**Miscellaneous
Dangerous Goods**



Marine Pollutant

UN Name	ENVIROMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (contains bisphenol A/epichlorohydrin resin, liquid)
UN No.	3082
Packaging Group	III
Hazchem	3Z
Class	9

* The UN 3082 does not apply when transported in packaging or IBC not exceeding 500Lt

Road and Rail Transport:

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Marine Transport:

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport:

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. Regulatory information

Classification:	Classified as hazardous according to criteria of NOHSC.
Poisons Schedule:	S5
A.I.C.S. Status:	All components of the finished product are listed on the Australian Inventory of Chemical Substances (AICS).

16. Other information

This material safety data sheet prepared by E-Coat Australia Pty Ltd.

MATERIAL SAFETY DATA SHEET

**Classified as hazardous according to criteria of NOHSC & Worksafe Australia.
 Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods
 Code for transport by Road & Rail.**

1. Product and Company identification

Product Name: TWS EP25 Epoxy Part B
Product Code: TWS EP25 Epoxy Part B

Supplier: Total Waterproofing Supplies
 8 Belford Place, Cardiff NSW 2285

Phone: 02 4940 3000

Product Use: Use as a hardener in 2-PackEpoxy coatings for concrete substrate
 Applied by brush and roller

2. Hazards Identification

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to NOHSC, Worksafe Australia and ADG Code.

GHS Classification : Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 1
 Skin Sensitiser Category 1

Label element   :

SIGNAL WORD : DANGER

Hazard Statements H315 Causes skin irritation
 H318 Causes serious eye damage
 H317 May cause an allergic skin reaction

Precautionary Statements P280 Wear protective gloves, clothing, eye and face protection
 P261 Avoid breathing dust, fumes, mist, vapour and spray
Prevention P272 Contaminated work clothing should not be allowed out of the work place
 P264 Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements Response	P305/P351	If in eyes rinse cautiously with water for several minutes
	P338	Remove contact lenses, if present and easy to do. Continue rinsing
	P310	Immediately call a POISON CENTRE or doctor/physician
	P302/P352	If on skin wash with plenty of water and soap
	P333/P313	If skin irritation or rash occurs, get medical advice/attention
	P362/P364	Take off contaminated clothing and wash it before reuse
Precautionary Statement Disposal	P501	Dispose of contents/containers to authorised chemical landfill or if organic to high temperature incineration
Other Hazards		Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

<u>Name</u>	<u>CAS Number</u>	<u>%</u>
Polyamide resin	68410-23-1	10-30

4. First Aid Measures

Swallowed	Clean mouth with water and drink afterwards plenty of water. Never give anything to an unconscious person. Do not induce vomiting. Call a doctor.
Eye	Get immediately medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eyes wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin	Remove all contaminated clothing/footwear. Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reaction see a doctor.
Inhaled	Remove to fresh air. Get medical attention immediately if symptoms occur.
Symptoms	Burning sensation. Itching. Rashes. Hives.

First Aid Facilities Eye wash and safety shower facilities should be available.

Advice to doctor May cause sensitisation in susceptible persons. Treat symptomatically.

Emergency Telephone

Poison Information Centre – Australia : 13 11 26

5. Fire Fighting Measures

Extinguishing Media Not combustible. Use foam, dry chemical, carbon dioxide.
Fire fighting advice Avoid contamination with oxidising agents. Fire fighters and others exposed to vapours or products of combustion should wear self-contained breathing apparatus and protective suit

Specific hazards: Product is or contains a sensitiser. May cause sensitisation by skin contact. Incomplete combustion may form carbon monoxide. May generate ammonia gas or/and toxic nitrogen oxide gases.

6. Accidental release measures

Personal Precaution Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

Minor Spills Clean up all spills immediately. Place in a suitable labelled container for waste disposal.

Major Spills Prevent further leakage or spillage if safe to do so. Contain/prevent run off into drains and waterways. Contain spill with sand, earth or vermiculite. Alert Fire Brigade if necessary. Collect recoverable material and seal in properly labelled containers or drums for disposal.

7. Handling and storage

Handling Avoid contact with skin, eyes or clothing. Wear suitable protective clothing, gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wear nitrile rubber gloves. In case of insufficient ventilation wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Always wash hands with soap and water after handling. Avoid breathing vapours and/or aerosols.

Storage Store in cool dry well ventilated place and out of direct sunlight. Keep containers tightly closed when not in use. Avoid contact with strong acids, strong bases and oxidising agents. Checked all containers are clearly labelled & free from leaks. Keep out of reach of children.

8. Exposure controls/Personal protection

Exposure Limits No exposure limits set by NOHSC.

Engineering Control Provide readily accessible eye wash stations and safety showers. Ensure adequate ventilated, especially in confined areas.

Personal Protection

Eye/face Tight sealing safety goggles.

Skin/body Suitable protective clothing. Long sleeve shirt and trousers without cuffs.

Respiratory Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS 1716.

Hand Wear nitrile, neoprene or butyl rubber gloves. Wash hands prior to smoking, eating and drinking.

9. Physical and chemical properties

PHYSICAL DESCRIPTION & PROPERTIES

Appearance	: Viscous white/grey liquid
Odour	: Mild amine
Boiling Point	: Approximately 100°C
Melting Point	: Not Applicable
Specific Gravity	: 1.17 – 1.22
Flash Point	: Not Applicable
Flammability Limits	: Not Applicable
Solubility in water	: Miscible with water
pH as supplied	: 9.0-10.5
Vapour pressure	: 18 mmHg @ 21°C
Evaporation rate	: Not Applicable
Autoignition Temp.(C)	: Not Applicable
Decomposition Temp(C)	: Not Available
VOC Level	: Zero

10. Stability and reactivity

Stability Product is considerable stable and hazardous polymerisation will not occur under normal conditions. Hazardous decomposition products include nitric acid, ammonia, nitrogen oxides, carbon monoxide.

Incompatible Materials Strong acids. Strong bases. Oxidising agents

11. Toxicological Information

No adverse effects expected if the product is handled in accordance with this Safety Data Sheet and the label of this product. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Eye Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.

Skin Cause skin irritation. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Inhaled May cause irritation of respiratory tract.

Swallowed Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

12. Ecological information

Avoid contaminating waterways and dispose of paint or washings into drains or stormwater channels.

13. Disposal considerations

Recycle wherever possible. Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Unwanted paint should be mixed with epoxy component and allowed to dry and then disposal of via domestic waste collection. Empty paint cans should be left open in a good ventilated area to dry before disposal. Consult your State Land Waste Management Authority prior to disposal.

14. Transport information

ADG	Not regulated Environmental hazard - Yes
IMDG	Not regulated Marine pollutant - Yes
IATA	Not regulated

15. Regulatory information

Classification:	Not classified as dangerous goods in accordance with Australian Code for the Transport of Dangerous Goods by Rail and Rail (ADG). Classified as a hazardous substance in accordance with criteria of Safe Work Australia - Globally Harmonised System.
Poisons Schedule:	None scheduled
A.I.C.S. Status:	All components of the finished product are listed on the Australian Inventory of Chemical Substances (AICS).

16. Other information

This material safety data sheet prepared by E-Coat Australia.