



MATERIAL SAFETY DATA SHEET

Issue date: 20th October, 2011

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: TREMproof[®] 300 EC RESIN

Company: Tremco Pty Limited ABN 25 000 024 064
Address: Unit 1, 2 Park Road, Rydalmere, New South Wales, 2116
Contact Nos.: Telephone: (02) 9638 2755 Fax: (02) 9638 2955
Emergency Telephone: 1800 224 512 7am to 5pm Monday to Friday inclusive
Product Code: 225210
Recommended Use: Resin component for two part waterborne epoxy coating

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF NOHSC.
CLASSIFIED AS NON-DANGEROUS GOODS ACCORDING TO THE CRITERIA OF THE ADG CODE

Symbols: Xi Irritant
N Environmentally hazardous substance
Risk Phrase (s): R36/38 Irritating to skin and eyes
R43 May cause sensitization by skin contact
R51 Toxic to aquatic organisms
R53 May cause long term adverse effects in the aquatic environment
Safety Phrase (s): S24 Avoid contact with skin
S26 in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 After contact with skin, wash immediately with plenty of water
S37/39 Wear suitable gloves and eye/face protection.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS Number:	Proportion:
Bisphenol A/Epichlorohydrin resin, liquid	25068-38-6	30 - 60%
Ingredients determined to be non hazardous or below cut off concentrations		To 100%

4. FIRST AID MEASURES

General information: In case of adverse health effects seek medical advice.
Swallowed: If swallowed, do **NOT** induce vomiting. Immediately wash out mouth with water and then give plenty of water to drink. Seek immediate medical advice.
Eye: If in eyes, hold eyes open, wash with large amounts of water for at least 15 minutes.

Skin: If skin contact occurs, remove contaminated clothing and wash affected area with soap and water. Ensure contaminated clothing is washed before re-use. If irritation persists seek medical advice.

Inhaled: Keep victim calm and remove from contaminated area to fresh air if it is safe to do so. If not breathing, apply artificial respiration and seek urgent medical treatment.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, extinguishing powder, carbon dioxide.

Hazards from Combustion Products: Nitrous gases, carbon monoxide.

Precautions For Fire Fighters & Special Protective Equipment: Wear self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations

Emergency procedures: Extinguish or remove all sources of ignition and stop leak and spread of spill if safe to do so. Do not allow product to enter drains, sewers or water courses - inform the local authorities if this occurs.

Methods and materials for containment and cleanup: 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 disposal of the waste. Clean area with detergent and water.

7. HANDLING & STORAGE

Precautions for safe handling: Ensure good ventilation at the workplace. Wash hands and remove contaminated clothing and protective equipment before eating, drinking, smoking or using the toilet

Conditions for safe storage: Keep container tightly closed. Store product between 15-30°C in a dry environment and out of direct sunlight. Do not allow product to freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:	No exposure standards have been established for this product by Worksafe Australia
Biological limit value: Engineering controls:	No biological limit allocated 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 vapour may be generated and exhaust ventilation should be provided to maintain airborne concentration levels as low as is reasonably practicable.
Personal protective Equipment (PPE):	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) Safety glasses (2) Neoprene, butyl rubber gloves (3) Long sleeve shirts and trousers (4) 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, in particular, wash hands and remove contaminated clothing and protective equipment before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White homogeneous liquid
Odour	Epoxy
pH:	No information
Vapour Pressure:	No information
Vapour Density:	No information
Boiling Point (°C):	>100°C
Freezing Point (°C):	0°C
Solubility:	Miscible with water

Specific Gravity: Clear 1.10-1.12kg/l White 1.26-1.28kg/l
Flammability: Non flammable
Viscosity: 15,000 – 25,000cps

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to avoid: Not applicable.
Incompatible Materials: Oxidising agents (e.g perchlorates, nitrates etc.)
Hazardous
Decomposition Products: Oxides of carbon and noxious smoke
Hazardous Reactions: Hazardous reactions will not occur

11. TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure:

Acute data	Not established for this product
Eyes	Possible chemical related eye burns resulting in cloudy appearance of the cornea, pain, impairment or loss of vision
Skin	Allergic skin effects such as redness, swelling, blistering and itching. Dermal effects may result in a change in skin pigmentation and/or colouration. Some individuals may experience severe skin reactions resulting in redness, swelling, itching, dryness, cracking, blistering and pain.
Inhalation	Upper respiratory tract irritation may result in cough, sneezing, nasal discharge, headache, hoarseness and nose and throat pain.
Ingestion	Irritation of the gastrointestinal tract may result in pain, abdominal tenderness, nausea, diarrhea and vomiting.
Reproductive	Limited evidence
Other	The following information is based on the Bisphenol A/epichlorohydrin resin: Oral (rat) LD50: 11400 mg/kg Dermal (mouse) LD50: 16600mg/kg.

12. ECOLOGICAL INFORMATION

Ecotoxicity: May cause long term adverse effects in the aquatic environment

Mobility: Sinks in water
Persistence/Biodegradability: Not readily biodegradable, has the potential to bioaccumulate

13. DISPOSAL CONSIDERATIONS

Disposal Methods and containers: Follow state or local authority regulations and guidelines for 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.

Special precautions for Landfill and incineration: None established for this product

14. TRANSPORT INFORMATION

UN Number: None
Proper Shipping Name: None
Class:
Subsidiary Risk: None
Packing Group: None
Hazchem Code: None
Special Precautions for User: Keep container tightly closed. Store product between 15-30°C in a dry environment and out of direct sunlight. Do not allow product to freeze.

15. REGULATORY INFORMATION

Poisons Schedule: S5
Regulations: Bisphenol A/epichlorohydrin resin (CAS: 26068-38-6) is found on the following regulatory lists:

- Australian Inventory of Chemical Substances (AICS)

Australian Poisons Schedule.

16. OTHER INFORMATION

Date of preparation 18th October, 2006
Literature references & Sources of data Suppliers MSDS for component ingredients
National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Ed
{(NOHSC:2011(2003))}

For Industrial Use only. Keep out of reach of children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use and storage of the product under every foreseeable condition.

Website: www.tremco.com.au

The information sourced for the preparation of this document was correct and complete at the time of writing or to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product undertaken in good faith. This documents should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority.



MATERIAL SAFETY DATA SHEET

Issue date: 20th October, 2011

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: TREMproof® 300 EC HARDENER

Company: Tremco Pty Limited ABN 25 000 024 064
Address: Unit 1, 2 Park Road, Rydalmere, New South Wales, 2116
Contact Nos.: Telephone: (02) 9638 2755 Fax: (02) 9638 2955
Emergency Telephone: 1800 224 512 7am to 5pm Monday to Friday inclusive
Product Code: 225210
Recommended Use: Hardener component for two part waterborne industrial epoxy coating

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF NOHSC.
CLASSIFIED AS NON-DANGEROUS GOODS ACCORDING TO THE CRITERIA OF THE ADG CODE

Symbols: Xi Irritant
Risk Phrase (s): R38 Irritating to skin
R41 Risk of serious damage to eyes
Safety Phrase (s): S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 After contact with skin, wsh immediately with plenty of water
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS Number:	Proportion:
Modified Polyamine SYMBOL: Xi		30 - 60%
Ingredients determined to be non hazardous or below cut off concentrations.		To 100%

4. FIRST AID MEASURES

General information: In case of adverse health effects seek medical advice.
 Swallowed: If swallowed, do **NOT** induce vomiting. Immediately wash out mouth with water and then give plenty of water to drink. Prevent aspiration of vomit. Seek immediate medical advice.
 Eye: If in eyes, wash with large amounts of water for at least 15 minutes holding the eyelid(s) open. Remove contact lenses..
 Skin: If skin contact occurs, remove contaminated clothing and wash affected area with soap and water. Ensure contaminated

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Inhaled: clothing is washed before re-use. If irritation persists, seek medical advice. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.
 Keep victim calm and remove to fresh air if it is safe to do so. If not breathing, apply artificial respiration and seek urgent medical treatment.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Alcohol resistant foam, dry chemical, carbon dioxide, dry sand.
 Hazards from Combustion Products: Nitrous gases, carbon monoxide.
 Precautions For Fire Fighters & Special Protective Equipment: Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations
 Emergency procedures: Extinguish or remove all sources of ignition and stop leak and spread of spill if safe to do so. Do not allow

Methods and materials for containment and cleanup:

product to enter drains, sewers or water courses - inform the local authorities if this occurs.

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 disposal of the waste. Clean area with detergent and water.

7. HANDLING & STORAGE

Precautions for safe handling: Ensure good ventilation at the workplace. Wash hands and remove contaminated clothing and protective equipment before eating, drinking, smoking or using the toilet

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Conditions for safe storage: Keep container tightly closed. Store product between 15-30°C in a dry environment and out of direct sunlight. Do not allow product to freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: No exposure standards have been established for this product by Worksafe Australia

Biological limit value: No biological limit allocated
Engineering 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 vapour may be generated and exhaust ventilation should be provided to maintain airborne concentration levels as low as is reasonably practicable.

Personal protective Equipment (PPE): 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) Safety glasses
(2) Neoprene, butyl rubber gloves

(3) Long sleeve shirts and trousers

(4) 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, in particular, wash hands and remove contaminated clothing and protective equipment before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber or off white coloured
homogeneous liquid

Odour: Ammoniacal

pH: 11-12

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Vapour Pressure: No information

Vapour Density: No information

Boiling Point (°C): >100°C

Freezing/Melting Point (°C): 0°C

Solubility: Completely miscible with water

Specific Gravity: 1.10-1.20kg/l

Flammability: Non flammable

Viscosity: 2,000 – 5,000cps

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to avoid: Not applicable.

Incompatible Materials: Oxidising agents (e.g perchlorates, nitrates etc.), mineral acids

Hazardous
Decomposition Products: Oxides of carbon and noxious smoke

Hazardous Reactions: Hazardous reactions will not occur

11. TOXOCOLOGICAL INFORMATION

Health effects from the likely routes of exposure: Acute data Eyes Not established for this product
Possible chemical related eye burns resulting in cloudy appearance of the cornea, pain, impairment or loss of vision

Skin	Allergic skin effects such as redness, swelling, blistering and itching. Dermal effects may result in a change in skin pigmentation and/or colouration. Some individuals may experience severe skin reactions resulting in redness, swelling, itching, dryness, cracking, blistering and pain.
Inhalation	Upper respiratory tract irritation may result in cough, sneezing, nasal discharge, headache, hoarseness and nose and throat pain.
Ingestion	Irritation of the gastrointestinal tract may result in pain, abdominal tenderness, nausea, diarrhea and vomiting.
Reproductive	None identified for this product.
Other	Acute oral LD50 - > 2960mg/kg (rat) Acute dermal LD50 – No data available Acute inhalation LC50 - No data available.

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12. ECOLOGICAL INFORMATION

Ecotoxicity:	Not established for this product
Mobility:	Not established for this product
Persistence/Degradability:	Not established for this product

17. DISPOSAL CONSIDERATIONS

Disposal Methods And containers:	Follow state or local regulations and guidelines for 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.
Special precautions for Landfill and incineration:	None established for this product

18. TRANSPORT INFORMATION

UN Number:	None
Proper Shipping Name:	None
Class:	
Subsidiary Risk:	None
Packing Group:	None
Hazchem Code:	None

Special Precautions for User: Keep container tightly closed. Store product between 15-30°C in a dry environment and out of direct sunlight. Do not allow product to freeze.

19. REGULATORY INFORMATION

Poisons Schedule: No Poisons Schedule Number allocated
The major component is found on the following regulatory lists:

- Australian Inventory of Chemical Substances (AICS)

20. OTHER INFORMATION

Date of preparation 18th October, 2006

Literature references &
Sources of data

Suppliers MSDS for component ingredients
National Code of Practice for the Preparation of
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Website: www.tremco.com.au

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