

River Set
Resin Part A

SAFETY DATA SHEET

Manufacturer:

Address

Telephone

e-mail

Website

Poisons Information Centre

Composites Warehouse

U2/30 Stockdale Road

O'Connor, WA 6163

08 9331 5513

info@compositeswarehouse.com.au

www.compositeswarehouse.com.au

13 11 26

Section 2 – Hazards Identification

WARNING



Hazard Statements

Skin irritation, Category 2

Serious eye damage, Category 1

Skin sensitisation, Category 1

Chronic aquatic toxicity, Category 2

H315: Causes skin irritation

H318: Causes serious eye damage

H317: May cause an allergic skin reaction

H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

P261 Do not breathe mists or vapours

P273 Avoid release to the environment

P264 Wash hands and exposed skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P280 Wear protective gloves/eye protection/face protection See Section 8

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P305 + P313 + P351 + P337 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poisons Centre / Doctor

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention

P370 + P378 In case of fire: Use carbon dioxide, dry chemical or foam for extinction

Storage

P403 + P235 Store in a well-ventilated place.

Disposal

P501 Dispose of contents/container to approved landfill

Section 3 - Composition/Information on Ingredients

Ingredient(s)

Bisphenol A epoxy resin

Bisphenol F epoxy resin

C12- 14 Alkylglycidyl ether

CAS-number

25068-38-6

28064-14-4

68609-97-2

%wt

50-60

20-30

10-20

Section 4 – First Aid Measures

Ingestion:

NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING TO DRINK NOR ATTEMPT TO INDUCE VOMITING. If the person is conscious, rinse mouth out with water ensuring that mouthwash is not swallowed. Give about 250mL (2 glasses) of water to drink. DO NOT attempt to induce vomiting. Seek URGENT medical attention. For advice, contact a Poisons Information Centre (phone e.g. Australia 13 11 26; New Zealand 0800 764 766).

Inhalation:

First aid is unlikely to be required as a result of normal use of this product but if necessary, remove to fresh air. Keep warm and at rest. If breathing is laboured, hold in a half upright position (this assists respiration). Apply artificial respiration if breathing has stopped. Seek medical attention for all but the most minor cases of over-exposure.



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Eye Contact:

If in eyes, IMMEDIATELY hold eyelids apart and flush the eye continuously with running water. Seek medical attention. Continue flushing until advised to stop by the Poisons Information Centre or a doctor or for at least 15 minutes. Transport to a hospital or doctor without delay.

Skin Contact:

Remove contaminated clothing. Rinse the affected area with water then wash thoroughly with soap and water. Use water alone, if soap is unavailable. Seek medical attention if any soreness or inflammation of the skin persists or develops later. Launder affected clothing before re-use.

Additional Information:

Equipment: An eyewash bottle with pure water should be available.

Advice to Doctor: Treat symptomatically.

Entry Route(s): Ingestion, eye and skin contact.

Section 5 – Fire Fighting Measures

Combustible. Heating may cause expansion or decomposition leading to rupture of drums. If heated to decomposition or burned, may evolve acrid smoke, carbon dioxide, aldehydes and other pyrolysis products.

In case of fire, evacuate personnel to safe areas. Avoid breathing vapours or fumes. Responders must be made aware of the nature of the hazard and must wear self-contained breathing apparatus. If safe to do so, move undamaged containers from fire area. Undamaged and sealed containers may be kept cool by spraying with water but direct contact with water should be avoided.

Do not use high volume water jets. Extinguish using carbon dioxide; dry chemical; protein-based foam; or alcohol-resistant foam. Prevent, by any means possible, runoff from entering drains or water courses.

Section 6 – Accidental Release Measures

Avoid any contact. Keep upwind of spill. Ventilate area. Use appropriate personal protective equipment (refer to Section 8 - Exposure Controls / Personal Protection).

Contain liquid to prevent contamination of soil, surface water or ground water. Prevent from entering, sewers or drains. Cover with an absorbent such as earth, sand or a commercial oil absorber. Sweep up and collect in drums. Move drums to a well-ventilated area until disposed to an approved recycler, reclaimer, incinerator, or to approved land-fill.

Section 7 – Handling and Storage

Storage:

Store in a cool, area with adequate ventilation. Keep containers tightly closed when not in use. Avoid contact with strong acids or bases and oxidising agents such as liquid or powdered chlorine. Protect containers against physical damage.

Handling:

Use only with adequate ventilation. Provide general and / or local exhaust ventilation. Keep equipment clean. Use disposable containers and tools where possible. Do not eat, drink or smoke while using this product.

For Personal Protective Equipment (PPE), see Section 8.

Section 8 – Exposure Controls/Personal Protection

Exposure standards: Exposure standards have not been allocated to this product or any of its ingredients.

Exposure standards represent airborne concentrations of individual chemical substances, which according to current knowledge, should neither impair the health nor cause undue discomfort to nearly all workers. Exposure standard may be a time-weighted average (TWA), a short-term exposure limit (STEL) or a peak level.

Engineering Controls:

Use in well-ventilated areas. No further engineering controls are required.

Personal Protection:

Requirements are dependent on working conditions, quantity of product in use and method of application. For minor use: safety goggles and gloves are sufficient. If large quantities are in use: chemical resistant safety goggles (neoprene or butyl rubber) gloves or gauntlets and overalls.

Respiratory protection is not required in well-ventilated areas.

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Resin Part A

Section 9 – Physical and Chemical Properties

Appearance: Viscous liquid
Odour: Slight
Colour: Pale
Specific gravity (H₂O =1) 1.12
Boiling Point: >200°C
Solubility in Water: Slightly soluble
Vapour Pressure: Negligible
Vapour density (Air = 1): Heavier than air.
Flash Point: >150°C (Closed Cup)
Explosive limits (% By Volume in Air): Not available

Section 10 – Stability and Reactivity

Stability: Stable under recommended storage and handling conditions. Combustible.
Hazardous Decomposition Products: Emits toxic fumes including oxides of carbon and incompletely combusted organic compounds if heated to decomposition or burned.
Hazardous polymerisation: Product will not polymerise.
Incompatibilities: The product may react with strong oxidising agents such as liquid or powdered chlorine, strong acids and bases.
Conditions to Avoid: Excessive heat and incompatible materials

Section 11 – Toxicological Information

Symptoms of Exposure:

Swallowed. Severely irritating. Ingestion may cause abdominal spasm, nausea and vomiting as well as symptoms similar to those for inhalation.

Eye: Severely irritating to the eyes.

Skin: Irritating.

Inhaled: Unlikely to pose a hazard in normal use but if generated and inhaled, vapours or mists would be irritating to the eyes, nose and throat.

Chronic Health Effects

Contact with the liquid may result in skin sensitisation, contact eczema and more rarely urticaria.

The liquid defats the skin and prolonged or repeated contact may contribute to dermatitis

Toxicological Information**Acute Toxicity Data:****Product**

LD₅₀ (estimate, calculation method): 2000mg/Kg,

LC₅₀ (estimate, calculation method): 20g/m³/4H

Ingredients

Bisphenol A epoxy resin

LD₅₀ Oral - Rat - 13,600 mg/kg

Species: Rabbit

Assessment: Mild skin irritant

Method: OECD Test Guideline

404

Result: Irritating to skin.

Bisphenol F epoxy resin

No data available

C12- 14 Alkylglycidyl ether

LD₅₀ Oral - Rat - female - > 2,000 mg/kg

Skin corrosion/irritation

Skin - Rabbit

Result: Irritating to skin. - 24 h

(OECD Test Guideline 404)

Serious eye damage/eye irritation

Species: Rabbit

Assessment: Mild eye irritant

Method: OECD Test Guideline

405

Result: Irritating to eyes.

Eyes - Rabbit

Result: Mild eye irritation

(OECD Test Guideline 405)

Respiratory or skin sensitisation

Buehler Test - Guinea pig

Result: May cause sensitisation by skin contact.



River Set Resin Part A

Section 12 – Ecological Information

Ecotoxicity:

Toxic to the aquatic environment with long lasting effects.

Mobility: Persistence / Degradability: According to the results of tests of biodegradability this product is not readily biodegradable.

Potential to Bio accumulate: Not expected to bio accumulate

Section 13 – Disposal Considerations

Do not allow into any sewers, drains, on the ground or into any body of water. Any disposal must be accordance with applicable State, Territory and/or Local government regulations. Dispose by controlled incineration or to an approved landfill site.

Section 14 – Transport Information

This product is a Class 9, Environmentally hazardous substance according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code) but is not subject to this Code when transported by road or rail in containers not exceeding 500kg/L.

| | |
|-----------------------|---|
| UN Number: | 3082 |
| Proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (BISPHENOL A EPOXY RESIN, BISPHENOL F EPOXY RESIN) |
| DG Class: | 9 |
| Hazchem code: | 2X |
| Packing group: | III |

Section 15 – Regulatory Information

Product is a schedule 5 Poison according to the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

All ingredients are listed on the Australian Inventory of Chemical Substances (AICS).

Section 16 – Other Information

REFERENCES

1. List of Designated Hazardous Substances [NOHSC: 10005(1999)]
2. Safe Work Australia Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, 2016
3. Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)] and subsequent amendments
4. AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices.
5. AS/NZS 1716 - Respiratory protective devices.
6. Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), Edition, 7.5, 2017.
7. International Maritime Dangerous Goods Code (IMDG), and current amendments
8. Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) No. 18, October 2017

ABBREVIATIONS

| | |
|------|--|
| LC50 | Lethal dose for 50% of test population, by inhalation. |
| LDLo | Lowest documented lethal dose |
| LD50 | Lethal dose for 50% of test population, by ingestion or skin contact |
| TDLo | Lowest published toxic dose |



River Set Resin Part A

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Composites Warehouse knowledge; however Composites Warehouse makes no warranty whatsoever, expressed or implied, or merchantability, or fitness for a particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. Composites Warehouse assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

Date of Issue: 17th October 2017, Revision 3



River Set Hardener Part B

SAFETY DATA SHEET

Manufacturer:

Address:

Telephone:

E-mail:

Website:

Poisons Information Centre:

Composites Warehouse

U2/30 Stockdale Road O'Connor, WA 6163

08 9331 5513

info@compositeswarehouse.com.au

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Section 2 – Hazards Identification

WARNING



Hazard Statements

Acute toxicity, Oral, Category 4

Skin corrosion/irritation, Category 1B

Serious eye damage, Category 1

Skin sensitisation, Category 1

Reproductive toxicity, Category 2

Acute aquatic toxicity Category 1

Chronic aquatic toxicity, Category 1

H332: Harmful if swallowed or inhaled

H315: Causes severe skin burns

H318: Causes serious eye damage

H317: May cause an allergic skin reaction

H361: Suspected of damaging fertility or unborn child.

Precautionary Statements

Prevention

P261 Do not breathe mists or vapours

P273 Avoid release to the environment

P264 Wash hands and exposed skin thoroughly after handling

P270 Do not eat, drink, or smoke when using this product

P280 Wear protective gloves/eye protection/face protection See Section 8

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P305 + P313 + P351 + P337 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poisons Centre / Doctor

P333 + P361+P353+P310: If on skin or hair, immediately take off all contaminated clothing. Rinse skin with water / shower.

Immediately call a doctor or Poisons Information Centre.

P370 + P378 In case of fire: Use carbon dioxide, dry chemical or foam for extinction

Storage

P403 + P235 Store in a well-ventilated place.

Disposal

P501 Dispose of contents/container to approved landfill

Ingredient(s)

Benzyl Alcohol

3-Aminomethyl-3,5,5 – trimethylcyclohexylamine

Trimethylhexamethylenediamine

Cycloaliphatic Amine

CAS-number %wt

100-51-6 <40%

2855-13-2 <35%

25620-58-0 <10%

Not Available >15%

Section 3 – Composition/Information on Ingredients

Section 4 – First Aid Measures

Ingestion:

NEVER GIVE AN UNCONSCIOUS PERSON ANYTHING TO DRINK NOR ATTEMPT TO INDUCE VOMITING. If the person is conscious, rinse mouth out with water ensuring that mouthwash is not swallowed. Give about 250mL (2 glasses) of water to drink. DO NOT attempt to induce vomiting. Seek URGENT medical attention. For advice, contact a Poisons Information Centre (phone e.g. Australia 13 11 26; New Zealand 0800 764 766).

Inhalation:

First aid is unlikely to be required as a result of normal use of this product but if necessary, remove to fresh air. Keep warm and at rest. If breathing is laboured, hold in a half upright position (this assists respiration). Apply artificial respiration if breathing has stopped. Seek medical attention for all but the most minor cases of over-exposure.

Eye Contact:

If in eyes, IMMEDIATELY hold eyelids apart and flush the eye continuously with running water. Seek medical attention. Continue flushing until advised to stop by the Poisons Information Centre or a doctor or for at least 15 minutes. Transport to a hospital or doctor without delay.

Skin Contact:

Remove contaminated clothing. Rinse the affected area with water then wash thoroughly with soap and water. Use water alone, if soap is unavailable. Seek medical attention if any soreness or inflammation of the skin persists or develops later.

Launder affected clothing before re-use.

Additional Information:

Equipment: An eyewash bottle with pure water should be available.

Advice to Doctor: Treat symptomatically.

Entry Route(s): Ingestion, inhalation, eye and skin contact.

Section 5 – Fire Fighting Measures

Combustible. Heating may cause expansion or decomposition leading to rupture of drums. If heated to decomposition or burned, may evolve acrid smoke, carbon dioxide, aldehydes and other pyrolysis products.

In case of fire, evacuate personnel to safe areas. Avoid breathing vapours or fumes. Responders must be made aware of the nature of the hazard and must wear self-contained breathing apparatus. If safe to do so, move undamaged containers from fire area. Undamaged and sealed containers may be kept cool by spraying with water but direct contact with water should be avoided.

Do not use high volume water jets. Extinguish using carbon dioxide; dry chemical; protein-based foam; or alcohol-resistant foam. Prevent, by any means possible, runoff from entering drains or water courses.

Section 6 – Accidental Release Measures

Avoid any contact. Keep upwind of spill. Ventilate area. Use appropriate personal protective equipment (refer to Section 8 - Exposure Controls / Personal Protection).

Contain liquid to prevent contamination of soil, surface water or ground water. Prevent from entering, sewers or drains. Cover with an absorbent such as earth, sand or a commercial oil absorber. Sweep up and collect in drums. Move drums to a well-ventilated area until disposed to an approved recycler, reclaimer, incinerator, or to approved land-fill.

Section 7 – Handling and Storage

Storage:

Store in a cool, area with adequate ventilation. Keep containers tightly closed when not in use. Avoid contact with strong acids or bases and oxidising agents such as liquid or powdered chlorine. Protect containers against physical damage. Class 8 Corrosives should not be stored or transported with goods of: Class 1 (Explosives), Class 4.3 (Dangerous When Wet Substances), Class 5.1 (Oxidising Agents), Class 5.2 (Organic Peroxides), Class 6 (Poisonous (toxic) substances, where the poisonous substances are cyanides and the corrosives are acids), Class 7 (Radioactive Substances) and foodstuff and foodstuff empties.

Handling:

Use only with adequate ventilation. Provide general and / or local exhaust ventilation. Keep equipment clean. Use disposable containers and tools where possible. Do not eat, drink or smoke while using this product. For Personal Protective Equipment (PPE), see Section 8.

Section 8 – Exposure Controls/Personal Protection

Exposure standards:

Exposure standards have not been allocated to this product or any of its ingredients. Exposure standards represent airborne concentrations of individual chemical substances, which according to current knowledge, should neither impair the health nor cause undue discomfort to nearly all workers. Exposure standard may be a time-weighted average (TWA), a short-term exposure limit (STEL) or a peak level.

Engineering Controls:

Use in well-ventilated areas. No further engineering controls are required.

Personal Protection:

Requirements are dependent on working conditions, quantity of product in use and method of application. For minor use: safety goggles and gloves are sufficient. If large quantities are in use: chemical resistant safety goggles (neoprene or butyl rubber) gloves or gauntlets and overalls. If using large quantities or in a poorly ventilated areas, a cartridge respirator with an organic vapour cartridge may be required.

Section 9 – Physical and Chemical Properties

Appearance: Viscous liquid

Odour: Slight

Colour: Pale

Specific gravity (H₂O =1) Approximately 1

Boiling Point: >200°C

Solubility in Water: Slightly soluble

Vapour Pressure: Negligible

Vapour density (Air = 1): Heavier than air.

Flash Point: >150°C (Closed Cup)

Explosive limits (% By Volume in Air): Not available

Section 10 – Stability and Reactivity

Stability: Stable under recommended storage and handling conditions. Combustible.

Hazardous Decomposition Products: Emits toxic fumes including oxides of carbon and incompletely combusted organic compounds if heated to decomposition or burned.

Hazardous polymerisation: Product will not polymerise.

Incompatibilities: The product may react with strong oxidising agents such as liquid or powdered chlorine, strong acids and bases.

Conditions to Avoid: Excessive heat and incompatible materials

Section 11 – Toxicological Information

Symptoms of Exposure:

Swallowed. Severely irritating. Ingestion may cause abdominal spasm, nausea and vomiting as well as symptoms similar to those for inhalation.

Eye: Severely irritating / burns. May cause irreversible eye damage

Skin: Severe irritation / burns.

Inhaled: Unlikely to pose a hazard in normal use but if generated and inhaled, vapours or mists would be severely irritating to the eyes, nose and throat.

Chronic Health Effects

Contact with the liquid may result in skin sensitisation

Toxicological Information

Acute Toxicity Data:

Ingredients

| | | |
|--|---------------------------------|--|
| Nonyl Phenol | Diisopropyl-naphthalene isomers | 3-Aminomethyl-3,5,5 – trimethylcyclohexylamine |
| LD50 Oral - Rat - male and female - | Skin corrosion/irritation | LD50 Oral - rat - male - 1,030 mg/kg |
| 1,412 mg/kg | Skin - Rabbit | (OECD Test Guideline 401) |
| Skin corrosion/irritation | Result: No skin irritation | Skin corrosion/irritation |
| Skin - Rabbit | (OECD Test Guideline 404) | Skin - Rabbit |
| Result: Causes burns- 4 h | Skin - Guinea pig | Eyes - rabbit |
| (OECD Test Guideline 404) | Does not cause skin | Result: Corrosive to eyes - 24 h |
| Serious eye damage/eye irritation | sensitisation. | (OECD Test Guideline 405) |
| Eyes - Rabbit | (OECD Test Guideline 406) | Respiratory or skin sensitisation |
| Result: Corrosive - 72 h | | Maximisation Test - guinea pig |
| (OECD Test Guideline 405) | | Result: May cause sensitisation by skin contact. |
| Respiratory or skin sensitisation | | (OECD Test Guideline 406) |
| Maximisation Test - Guinea pig | | (OECD Test Guideline 406) |
| Result: Does not cause skin sensitisation. | | |

Ecotoxicity:

Toxic to the aquatic environment with long lasting effects.

Mobility: Persistence / Degradability:

According to the results of tests of biodegradability this product is not readily biodegradable.

Section 12 – Ecological Information

Potential to Bio accumulate: Not expected to bio accumulate

Section 13 – Disposal Considerations

Do not allow into any sewers, drains, on the ground or into any body of water. Any disposal must be accordance with applicable State, Territory and/or Local government regulations. Dispose by controlled incineration or to an approved landfill site.

Section 14 – Transport Information

This product is a Class 9, Environmentally hazardous substance according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code) but is not subject to this Code when transported by road or rail in containers not exceeding 500kg/L.

| | |
|-----------------------|--|
| UN Number: | 3082 |
| Proper shipping name: | POLYAMINES, LIQUID, (NONYL PHENOL, DIISOPROPYLNAPHTHALENE) |
| DG Class: | 9 |
| Packing group: | III |
| Emergency Information | HB 76 Guide 36 |

Section 15 – Regulatory Information

Product is a schedule 5 Poison according to the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). All ingredients are listed on the Australian Inventory of Chemical Substances (AICS).

Section 16 – Other Information

REFERENCES

1. List of Designated Hazardous Substances [NOHSC: 10005 (1999)]
2. Safe Work Australia Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, 2016

3. Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)] and subsequent amendments
4. AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices.
5. AS/NZS 1716 - Respiratory protective devices.
6. Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), Edition, 7.5, 2017.
7. International Maritime Dangerous Goods Code (IMDG), and current amendments. Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) No. 18, October 2017

ABBREVIATIONS

| | |
|------|--|
| LC50 | Lethal dose for 50% of test population, by inhalation. |
| LDLo | Lowest documented lethal dose |
| LD50 | Lethal dose for 50% of test population, by ingestion or skin contact |
| TDLo | Lowest published toxic dose |

User should verify applicability of this data sheet if more than 5 years old.

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Composites Warehouse knowledge; However Composites Warehouse makes no warranty whatsoever, expressed or implied, or merchantability, or fitness for a particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. Composites Warehouse assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

Date of Issue: 17th October 2017, Revision 1