

Safety Data Sheet

WEST SYSTEM 105

Version 1.8



17 Corban Avenue, Henderson, Waitakere 0612 P.O. Box 21169, Henderson, Waitakere 0650, New Zealand
Phone: +64 9 838-6961 Facsimile: +64 9 836-4849 Website: www.adhesivetechnologies.co.nz

1. Product and Company Identification

Product Name WEST SYSTEM* 105
Product Code R105
Recommended uses Construction of fibre reinforced equipment and fittings. Suitable for construction of recreational water craft. Corrosion resistant flooring and coatings.
Company Adhesive Technologies NZ Ltd
Street Address 17 Corban Avenue
Henderson
Auckland
Telephone +64 9 838 6961
Emergency Contact numbers **National Poisons Centre**
0800 764 766 (0800 POISON)
Other Countries
0064 3 479 7248
New Zealand Fire Service – 111

2. Hazards Identification

HSNO Classification

6.1D Acutely toxic (oral, dermal, inhalation)
6.3A Irritating to the skin
6.4A Irritating to the eyes
6.5B Contact sensitisers
9.1B Very ecotoxic in the aquatic environment

3. Composition/Information on Ingredients

Chemical Name	CAS no.	Weight %
Bisphenol A/epichlorohydrin resin	25085-99-8	>60
Bisphenol F diglycidyl ether polymer	28064-14-4	<20
Benzyl alcohol	100-51-6	<20
Xylene	1330-20-7	0-5
Other ingredients determined not to be hazardous	-	To 100

4. First Aid

Inhalation Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
Skin Contact Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.
Eye contact Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention.
Ingestion Do not induce vomiting. Rinse mouth with water. Give plenty of water to drink.
Treatment Treat symptomatically

5. Fire-fighting Measures

Extinguishing Media Use water fog, foam, dry chemical or carbon dioxide.
Fire and Explosion Hazards Clear fire area of all non-emergency personnel. Cool fire exposed containers with water. Irritating fumes are released in fire situations. Do not allow material or run-off to enter waterways. Stay upwind, keep out of low areas.

Fire-fighting equipment Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots). Use approved positive pressure self contained breathing apparatus.

HAZCHEM 3Z

6. Accidental Measures

Personal Precautions Use cautious judgement when cleaning up spills. Shut off leaks, if possible without personal risk.

Environmental Precautions Dike and Contain. Contain run-off and dispose of properly. Remove contaminated soil to remove contaminated trace residues. Prevent from entering into drains, ditches or rivers.

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Clean-up Methods (small) Soak up with an absorbent material such as clay, sand, sawdust or Zorball. Place in non-leaking container. Seal tightly for proper disposal.

Clean-up Methods (large) Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent material such as clay, sand, sawdust or Zorball. Place in non-leaking container. Seal tightly for proper disposal. Flush are with water to remove trace residue.

risks involved and should be approved by a specialist before handling this product.

Eye - Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Hand - Recommended: polyvinyl alcohol (PVA), Butyl rubber, EVAL, Neoprene.

7. Handling and Storage

Handling Keep out of reach of children. Put on appropriate PPE (see section 8). Causes skin irritation and sensitivity. Avoid contact with skin, eyes and clothing. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Do not breathe vapour or mist. Clean up spilled material immediately, and wash clothes, equipment and work area after use.

Storage Store in a cool, dry place with adequate ventilation. Keep containers closed when not in use.

8. Exposure Controls / Personal Protection

Occupational Exposure limits	None established
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WEL = workplace exposure limit
TWA = time weighted average
STEL = short term exposure limit

Engineering controls Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants as low as possible and/or below any recommended or statutory limits. Use explosion-proof ventilation equipment.

Personal Protection **Respiratory** - Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Skin - Personal protective equipment for the body should be selected based on the task being performed and the

9. Physical and Chemical Properties

Appearance	Liquid
Colour	Colourless
Odour	Sweet odour
pH	~ 5
Vapour pressure	82 Pa (4.5 mm Hg)
Vapour density	>1 [Air = 1]
Boiling Point	Not available
Melting/Freezing Point	Not available
Solubility (water)	Not Miscible
Specific Gravity/Density	1.14 g/cm ³ [25°C (77°F)]
Flash Point	251°C (closed cup)
Flammable Limits	LFL: Not available UFL: Not available
Auto-ignition	>300°C

10. Stability and Reactivity

Chemical Stability Stable under recommended storage conditions.

Conditions to avoid Avoid temperatures above 300°C. Potentially violent decomposition can occur, causing gas generation and pressure increases in closed systems.

Materials to avoid Reactive or incompatible with the following materials: *oxidizing materials*: Slightly reactive or incompatible with the following materials: *acids and alkalis*.

Hazardous Decomposition Products Decomposition products may include the following materials: carbon oxides, phenolics and water.

11. Toxicological Information

Potential Health effects

Inhalation	Vapours are unlikely due to physical properties.
Ingestion	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
Skin	Prolonged or repeated contact may cause skin irritation.
Eye	May cause eye irritation. Corneal injury is unlikely.

Acute Health Effects

Test	Species	Result	Exposure
LD50 Oral	Rat	>5,000mg/kg	-
LD50 Dermal	Rabbit	20,000mg/kg	-

Systemic Effects	Except for Skin sensitization, repeated exposure is not likely to cause significant adverse effects.
Carcinogenicity	IARC has classified DGEBA as non-carcinogenic.
Mutagenicity	In animal studies, did not interfere with reproduction. Animal genetic toxicity studies were negative.

12. Ecological Information

Ecotoxicity Based on information for DGEBA

Species	Period	Result
<i>Pimephales Promelas</i>	96hr	3.1mg/L
<i>Daphnia magna</i>	48hr	1.4 - 1.7mg/L
<i>Bacteria</i>	18hr	42.6mg/L

Degradability	Under OECD guidelines this material cannot be considered as readily degradable.
Bioaccumulation	Moderate Log P _{ow} = 3 - 5
HSNO Classification	9.B Very ecotoxic in the aquatic environment

13. Disposal Considerations

Disposal

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations.

FOR UNUSED AND UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other destruction device.

14. Transport Information

Road, Rail, Sea and Air Transport

UN Number	UN3082
Proper Shipping name	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin mixture)
DG Class	9
Packing Group	III
HAZCHEM code	3Z
IMO/IMDG class	9
ICAO/IATA class	9
EMS code	F - A, S - F
Marine pollutant	Yes

15. Regulatory Information

ERMA NZ Approval code	HSR002670
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16. Other Information

FOR FURTHER PRODUCT INFORMATION CALL ADHESIVE TECHNOLOGIES NZ LTD DURING BUSINESS HOURS

Product Information Manager (+64) 9 838 6961

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