

Safety Data Sheet

WEST SYSTEM 205

Version 1.9



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 205
Product Code	H 205
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

6.1C	(dermal) Acutely toxic
6.1C	(oral) Acutely toxic
6.5B	(contact) Contact sensitisers
6.8B	Suspected human reproductive or developmental toxicants
6.9A	(oral) Toxic to human target organs or systems
6.9B	(dermal) Harmful to human target organs or systems
8.2C	Corrosive to dermal tissue
8.3A	Corrosive to ocular tissue
9.1B	(algal) Very ecotoxic in the aquatic environment
9.1C	(crustacean) Harmful in the aquatic environment
9.3B	Ecotoxic to terrestrial vertebrates

3. Composition/Information on Ingredients

Chemical Name	CAS no.	Weight %
Reaction Products of TETA with Phenol/formaldehyde	32610-77-8	<50
Tetraethylenepentamine	112-57-2	<20
Triethylenetetramine	112-24-3	<20
Phenol	108-95-2	<12
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 for at least 15 minutes. 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 minutes while holding eyelids open until medical attention is received.
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	DANGER: Corrosive 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	3X

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.

Skin - Personal protective equipment for the body should be worn at all times. Wear chemical-resistant protective clothing such as gloves, apron, overshoes and face shield to prevent potential exposure.

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

Ingredient name	Phenol
Occupational Exposure limits	TWA – 5ppm - 19mg/m ³ REL – 5ppm – 19mg/m ³

WEL = workplace exposure limit, TWA = time weighted average
STEL = short term exposure limit, REL = recom. 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. Eye wash fountains and safety showers should be available for emergency use.

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.

9. Physical and Chemical Properties

Appearance	Liquid
Colour	Amber
Odour	Ammonia odour
pH	≈ 10
Vapour pressure	<1.00 mmHg at 21°C
Vapour density	>1 [Air = 1]
Boiling Point	230°C (446°F)
Melting/Freezing Point	10°C (50°F)
Solubility (water)	miscible
Specific Gravity/Density	0.99 g/cm ³ [25°C (77°F)]
Flash Point	135.56°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	>2,200mg/kg	-
LD50 Dermal	Rabbit	>2,000mg/L	-
LC50 Inhalation	Rat	>20mg/L	1hr

Systemic Effects	Irritating to respiratory system. Moderate skin irritation. Severe eye irritation. May cause sensitization by skin contact
Carcinogenicity	Has not been classified by IARC
Mutagenicity	Has not been classified by IARC

12. Ecological Information

Ecotoxicity	Based on information for Phenol		
Species	Period	Result	
<i>Daphnia magna</i>	48hr	6.6mg/L	
Degradability	No data is available on the product itself.		
Bioaccumulation	No data is available on the product itself.		
HSNO Classification	9.1B (algal)	Very ecotoxic in the aquatic environment	
	9.1C (crustacean)	Harmful in the aquatic environment	
	9.3B	Ecotoxic to terrestrial vertebrates	

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	2735
Proper Shipping name	Polyamines, liquid, corrosive, n.o.s. (mixture contains Triethylenetetramine, <12% phenol)
DG Class	8
Packing Group	III
HAZCHEM code	3X
IMO/IMDG class	8
ICAO/IATA class	8
EMS code	F – A, S – B
Marine pollutant	Yes

15. Regulatory Information

ERMA NZ Approval code	HSR002658
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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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