

PRODUCT NAME:	WEST SYSTEM <sup>®</sup> 205	ISSUE DATE:	24/03/2021 REVISION: 2.2
1. Product and	Company Identification		
Product Name Product Code Recommended uses	WEST System <sup>®</sup> 205 205 Construction of fibre reinforce recreational water craft. Corre		ttings. Suitable for construction of ng and coatings.
Company Street Address	Adhesive Technologies NZ ltd 17 Corban Avenue Henderson Auckland		
Telephone Emergency Contact numbers	+64 9 838 6961 National Poisons Centre 0800 764 766 (0800 POISON)	<b>Other Countries</b> 0064 3 479 7248	New Zealand Fire Service
2. Hazards Ider	tification		
6.1C(oral) Acu6.5B(contact)6.8BSuspected6.9A(oral) Tox6.9B(dermal)8.2CCorrosive8.3ACorrosive9.1B(algal) Ve9.1C(crustace)	Contact sensitisers d human reproductive or develo tic to human target organs or sy Harmful to human target organs to dermal tissue to ocular tissue ery ecotoxic in the aquatic enviro an) Harmful in the aquatic enviro o terrestrial vertebrates Category 3 Category 3 Category 1 Category 2 Systemic ure on category 1 category 1	s or systems conment conment Hazard	Signal Word: DANGER
H314Causes seveH317May cause aH361Suspected oH373Causes damaH411Toxic to aqu	cact with skin. re skin burns and eye damage. n allergic skin reaction. f damaging fertility or the unbo age to organs through prolonge atic life with long lasting effect estrial vertebrates.	ed or repeated expos	sure

- P261 Avoid breathing vapours
- P264 Wash hands thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment
- P280 Wear protective gloves, protective clothing, eye protection and face protection

### Response

P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
P338	and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.

# Storage

P405 Store locked up

# Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical Name	CAS no.	Weight %
Teta, reaction products with phenol /formaldehyde	32610-77-8	40-50
Triethylenetetramine	112-24-3	30-40
Phenol	108-95-2	10-20
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	Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow
Contact	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.
Extinguishing Media to Avoid	Do not use direct water stream. May spread fire
Hazardous Combustion Products	In case of fire, the following hazardous smoke fumes may be produced: Carbon Oxides, Nitrous gases, ammonia.

Fire Fighting
 Procedures
 Clear fire area of all non-emergency personnel. Isolate fire and deny unnecessary entry. Cool fire exposed containers with water. Irritating fumes are released in fire situations. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Do not allow material or run-off to enter waterways. Stay upwind, keep out of low areas.
 Fire-fighting
 equipment
 Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves).
 Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is

not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location

HAZCHEM

# 6. Accidental Release Measures

2X

General Precautions	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling, for additional precautionary measures.
Personal	Use cautious judgement when cleaning up spills. Shut off leaks, if possible without personal risk.
Precautions	
Environ-	Dike and Contain. Contain run-off and dispose of properly. Remove contaminated soil to
mental	remove contaminated trace residues. Prevent from entering into drains, ditches or rivers.
Precautions	
Clean-up	Soak up with an absorbent material such as clay, sand, sawdust or Zorball. Place in non-leaking
Methods	container. Seal tightly for proper disposal.
(small)	
Clean-up	Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an
Methods	absorbent material such as clay, sand, sawdust or Zorball. Place in non-leaking container. Seal
(large)	tightly for proper disposal. Flush are with water to remove trace residue.

#### 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

Workplace Ex	cposure	Component	List	Туре	Value
Standards		Triethylenetetramine	WEEL	TWA	6 mg/m3 1 ppm SKIN
Engineering	ing Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other				
controls	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	<b>Respiratory</b> - 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 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.

9. Physical and Chemical Properties					
Appearance	Liquid				
Colour	Amber				
Odour	Sweet odour				
рН	Not available				
Vapour pressure	< 0.01 kPa @ 20 °C				
Vapour density	5.0 @ 20 °C (air = 1)				
Boiling Point	Not available				
Melting/Freezing Point	Not available				
Solubility (water)	Soluble				
Specific Gravity/Density	1.06g/cm <sup>3</sup> [25°C (77°F)]				
Flash Point	148°C (closed cup)				
Flammable Limits	LFL: Not available				
	UFL: Not available				
Auto-ignition	294°C				

# 10. Stability and Reactivity

<b>Chemical Stability</b>	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	<ul> <li>Heat is generated when mixed with water. Spattering and boiling can occur. Avoid contact with oxidizing materials. Avoid contact with: Acids. Acrylates. Alcohols. Aldehydes.</li> <li>Halogenated hydrocarbons. Ketones. Nitrites. Avoid contact with metals such as: Brass.</li> <li>Bronze. Copper. Copper alloys. Avoid contact with absorbent materials such as: Ground corn cobs. Moist organic absorbents. Peat moss. Sawdust.</li> </ul>
Hazardous Decomposition Products	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Ammonia. Ethylenediamine. Volatile amines.

# 11. Toxicological Information

### **Potential Health effects**

Inhalation	No data is available on the product itself.
Ingestion	No data is available on the product itself.
Skin	Moderate skin irritation
Eye	Severe eye irritation.

# Acute Health Effects

(Triethylenetetramine)

Test	Species	Result	Exposure	-
	Rat	2,500 - 4,340		-
LD50 Oral	Kal	mg/kg	-	
LD50 Dermal	Rat	550 - 805 mg/kg	-	
Systemic Effects	Except for Skin sensitization, repeated exposure is not likely to cause significant adverse effects.			
Carcinogenicity	No data is available on the product itself.			
Mutagenicity	No data is available on the product itself.			

# 12. Ecological Information

(Triethylenetetramine)

Ecotoxicity

Material is toxic to aquatic organisms on an acute basis

S	Species		Period	Result	-
LC50	LC50 guppy		96 h	570mg/l	-
LC50	wate	r flea	48 h	12-40 mg/	
EC50	green	algae	72 h	3.7 mg/l	
DegradabilityUnder OECBioaccumulationModerateLog Pow = -29.1B		ate , = -2.65 6at 23 ° (algal) Very ec (crustacean) H	°C cotoxic in the ac larmful in the a	cannot be considered as readily degradable. quatic environment quatic environment	
9.3B Ecotoxic to terrestrial vertebrates				lles	
13. Di	isposal Con	siderati	ons		

#### 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

UN Number	2735
Proper Shipping	Polyamines, liquid, corrosive, n.o.s. (mixture contains Triethylenetetramine)
name	
DG Class	8
Packing Group	III
HAZCHEM code	2X
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

#### 16. Other Information

FOR FURTHER PRODUCT INFORMATION CALL ADHESIVE TECHNOLOGIES NZ LTD DURING BUSINESS HOURS **Product Information Manager** (+64) 9 838 6961

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in text.