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IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE SUPPLIER

Product Name: WEST SYSTEM® 206 Slow Hardener

Product Code: H206

Recommended use: An epoxy hardener used for curing epoxy resin systems. Used for

construction of fibre reinforced equipment and fittings. Suitable for construction of recreational water craft. Corrosion resistant flooring

and coatings.

Supplier: Adhesive Technologies NZ Limited

Street Address: 17 Corban Avenue, Henderson, Auckland

Telephone Number: 0064 9 838 6961 (8.00am to 5.00pm, Monday to Friday)

Facsimile: 0064 9 836 4849

Web Address http://www.adhesivetechnologies.co.nz/

Emergency Telephone: 0064 3 479 7248 (From overseas)

National Poison
Information Centre

0800 POISON (764 766) (within New Zealand)

New Zealand Fire Service 111

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2.0 HAZARDS IDENTIFICATION

Hazard Classification

Acute Toxicity (Oral): Category 4 **Acute Toxicity (Dermal):** Category 5 **Acute Toxicity (Inhalation):** Category 4 **Skin Corrosion/Irritation:** Category 1B **Skin Sensitisation:** Category 1 **Germ Cell Mutagenicity:** Category 2 **Specific Target Organ Toxicity (Repeat):** Category 1 **Aquatic Toxicity:** Category 3

For the full text of the H-Statements mentioned in this Section, see Section 16.









Signal Word: DANGER

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Precautionary Statements

Hazards Statement

H312 + H332	Harmful in contact with skin or if inhaled
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes sever skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H317	May cause an allergic skin reaction
H341	Suspected of causing genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Prevention

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/gas/mist/vapours
P261	Avoid breathing vapours
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
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

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Response

P310 Immediately call a POISON CENTER or doctor/physician.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 + P352 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower. Wash with plenty of water.

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 and easy to do. Continue rinsing.

P338

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P361 Take off immediately all contaminated clothing.

P362 + P364 Take off contaminated clothing and wash before reuse.

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 to an approved waste disposal plant.

Restricted to professional users.

Other hazards

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3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous Ingredients:

Chemical Name	CAS No.	Concentration (%)
Isophoronediamine (3-aminomethly-3,5,5-trimethyl-cyclohexylamine)	2855-13-2	50-60
Triethylenetetramine	112-24-3	10-15
Phenol	108-95-2	20-25
Other non-hazardous components		to 100

4.0 FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre Phone 0800 764 766.

First-aid measures general:

Never give anything by mouth to an unconscious person. Suspected of causing cancer.

IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation:

Allow victim to breathe fresh air. Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact:

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Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: wash throughly for five minutes. seek medical attention. Get medical advice/attention. Specific treatment (see seek medical attention. on this label).

First-aid measures after eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: SEEK IMMEDIATE MEDICAL ATTENTION. Get medical advice/attention.

First-aid measures after ingestion:

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Symptoms/injuries:

May cause genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs.

Symptoms/injuries after inhalation:

Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

Symptoms/injuries after skin contact:

Causes skin irritation.

Symptoms/injuries after eye contact:

Causes serious eye irritation.

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5.0 FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard: Flammable liquid and vapor. Highly flammable liquid and vapor.

Explosion hazard: May form flammable/explosive vapor-air mixture.

Reactivity: No reactivity hazard other than the effects described in sub-

sections below.

Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise

caution when fighting any chemical fire. Prevent fire-fighting

water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment,

including respiratory protection.

Hazchem 2X

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6.0 ACCIDENTAL RELEASE MEASURES

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 Precautions: Use cautious judgement when cleaning up spills. Shut off leaks, if

possible, without personal risk.

Environ-mental Precautions: Dike and contain. Contain run-off and dispose of properly. Remove

contaminated soil to remove contaminated trace residues. Prevent

from entering drains, ditches, or rivers.

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.

For Large Spills: 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 is with water to remove trace residue.

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7.0 HANDLING & STORAGE

Workplace Exposure Standards: Not established

Engineering control Use only with adequate ventilation. Use process enclosures, local exhaust

measures: 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 protective

equipment:

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 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

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8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with workplace control measures

Component	CAS-No.	Value	Control parameters	Basis
Phenol	108-95-2	WES-STEL	2 ppm / 7.7mg/m³	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
Triethylenetetramine	112-24-3		Contains no substances with occupational exposure limit values.	
Isophoronediamine (3-aminomethly-3,5,5- trimethyl- cyclohexylamine)	2855-13-2		MAK sensitization of skin (SH)	

Biological occupational exposure limits

Component	CAS- No.	Parameters	Value	Biological specimen	Basis
Phenol	108-95- 2	Total phenol	100 mg/l	Urine	New Zealand. Biological Exposure Indices.
Triethylenetetramine	112-24- 3		Contains no substances with occupational exposure limit values.		
Isophoronediamine (3-aminomethly-3,5,5- trimethyl- cyclohexylamine)	2855- 13-2		No data available		

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Exposure controls (Phenol)

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment (Phenol)

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves/

Full contact
Material: Viton®

Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Splash contact Material: Viton®

Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Body Protection

Flame retardant antistatic protective clothing.

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Respiratory protection

required when dusts/vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

9.0 PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Liquid
Colour:	Pale Straw Yellow
Odour:	Sweet odour
pH:	Not available
Vapour pressure:	82 Pa (4.5 mm Hg)
Vapour density:	0.0157 hPa at 20 °C
Boiling Point:	Not available
Melting/Freezing Point:	Not available
Solubility (water):	Soluble
Specific Gravity/Density:	0.98g/cm³ [25°C (77°F)]
Flash Point:	110°C (closed cup)
Flammable Limits:	LFL: Not available
	UFL: Not available
Auto-ignition:	>300°C

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10.0 STABILITY & REACTIVITY

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.

Incompatible materials: Heat is generated when mixed with water. Spattering and boiling can

occur. Avoid contact with oxi:dizing materials. Avoid contact with:

Acids. Acrylates. Alcohols. Aldehydes. Halogenated hydrocarbons.

Ketones. Nitrites. Avoid contact with metals such as: Brass. Bronze.

Copper. Copper alloys. Avoid contact with absorbent materials such

as: Ground corn cobs. Moist organic absorbents. Peat moss.

Sawdust.

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.

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11.0 TOXICOLOGICAL INFORMATION

	Acute Toxicity:						
Hazardous Material:	Phenol	CAS#:	CAS #: 108-95-2				
		LD50	LC50	Animal / Time			
		(mg/Kg)	(mg/L)				
Oral:		317.0		Rat			
Inhalation:			900.0	Rat / 8 h			
Dermal:		630.0					
Chronic Toxicity: No ad	ditional informatio	on		1			
Corrosion / Irritation:							
Dermal:	Dermal: Skin – Rabbit – Severe skin irritation – 24 h			ere skin irritation – 24 h			
Ocular:		Eyes – Ra	bbit – Co	rrosion to eyes			
Sensitisation: No additi	onal information						
Specific Target Organ T	oxicity:	May caus	May cause damage to organs through				
	prolonge	prolonged or repeated exposure					
Carcinogenicity:		No additi	No additional information				
Mutagenicity:		No additi	No additional information				
Reproductive Toxicity:		No additi	No additional information				

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Acute Toxicity:							
Hazardous Materia	Triethylenetetramine	CAS #: 112-24-3		24-3			
		LD50	LC50	Species / Time			
		(mg/Kg)	(mg/L)				
Oral:		1150		Rat			
Dermal:		1550		Rabbit			
Chronic Toxicity: N	o additional informatior	1					
Corrosion / Irritation	n:						
Dermal:		Cause burns					
Ocular:		No additional information					
Sensitisation: May	cause sensitization by s	kin contact					
Specific Target Org	an Toxicity:	No additional information					
Carcinogenicity:		No additional information					
Mutagenicity:		No evidence of genotoxic effects in vivo					
Reproductive Toxic	ve Toxicity: No additional information						

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Acute Toxici	ty:			
Hazardous		CAS#:		2855-13-2
Material:	Isophoronediamine			
	(3-aminomethly-3,5,5-trimethyl-			
	cyclohexylamine)			
		LD50	LC50	Species / Time
		(mg/Kg)	(mg/L)	
Oral:		1030		Rat
Dermal:		2000		Rat
Inhalation:		1.01*	5.01	Rat
Chronic Tox	icity: No additional information	<u> </u>		
Corrosion /	Irritation:			
Dermal:		Corrosive	(Rabbit)	
Ocular:		Corrosive	(Rabbit)	
Sensitisatio	n: Sesnsitisation after skin contact possible			
Specific Tar	get Organ Toxicity:	Repeated	or prolo	nged exposure may cause
		skin sensitisation.		
Carcinogeni	city:	Study sci	entifically	y not justified
Mutagenicit	y:	No mutagenic effect was found in various test with		
		bacteria and mammalian cell culture. The substances		
	was not mutagenic in a test with mammals.			
Reproductiv	re Toxicity:	Repeated	l oral upta	ake of the substance did not cause
		damage to reproductive organs.		

^{*} Estimate LD50 values using ICCVAM's regression formula from LC50 values (log LD50 (mg/kg) = 0.372 log IC50 (μg/mL) + 2.024).

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12.0 ECOLOGICAL INFORMATION

Ecotoxicity:				
Hazardous Material:	Phenol	CAS#:	108-9	95-2
	I	LC50	EC50	Time
		(mg/L)	(mg/L)	
Leuciscus idus (Golden or	fe)	14.0 – 25.0		48 h
Carassius auratus (goldfis	sh)	36.1 – 68.8		96 h
Daphnia magna (Water fle	a)		56.0	48 h
Chlorella vulgaris (Fresh water algae)			370.0	96 h
Persistence and degrade	ability: Readily biod	legradable. Phenol,	Liquified	l: Half – life: day 15 hours, night 12 minutes
Bioaccumulative potenti	al:			
Mobility in soil: Mobile in	soil and water			
Other adverse effects:				

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Ecotoxicity:						
Hazardous Material:	Triethylenetetramine	CAS #: 112		112	12-24-3	
		LC50	EC50		Time	
		(mg/L)	(mg/L)			
Pimphales promelas (fath	nead minnow)	>100.0			96 h	
Daphnia magna (Water fl	ea)		>10.0 – 10	0.0	48 h	
Pseudokirchneriella subc	capitata (green algae)		>10.0 – 10	0.0	72 h	
Persistence and degrad	eability:					
Not readily biodegradable	e.					
Bioaccumulative potent	tial:					
No data available						
Mobility in soil:						
Immobile						
Other adverse effects:						
Biochemical Oxygen Demand (BOD) no data available						

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Ecotoxicity:					
Hazardous Material:	Isophoronediamine	CAS#:		2855-13-2	
	(3-aminomethly-3,5,5-trimethy				
	cyclohexylamine)				
		LC50	EC50	Time	
		(mg/L)	(mg/L)		
Leuciscus idus (Golde	en orfe)	110.0		96 h	
Daphnia magna (Wate	er flea)		23.0	48 h	
Desmodesmus subsp	icatus		37.0	72 h	
(previous name: Scenedesmus subspicatus)			37.0		
Persistence and deg	radeability:				
No data available					
Bioaccumulative pot	ential:				
No data available.					
Mobility in soil:					
No data available.	No data available.				
Other adverse effect	s:				

No data available.

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13.0 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must follow 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.

General information

The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Do not discharge into drains or watercourses or onto the ground.

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14.0 TRANSPORTATION & REGULATORY INFORMATION

Road, Rail, Sea, and Air Transport

UN Number 2735

Proper Shipping name Polyamines, liquid, corrosive, n.o.s. (mixture contains isophoronediamine)

DG Class 8

Packing Group III

IMO/IMDG class 8

ICAO/IATA class 8

HAZCHEM code 2X

EmS F-A,S-B

Marine pollutant Yes

15.0 REGULATORY INFORMATION

EPA Approval: The HSNO Approval Number for this Group Standard is HSR002658.

Group Standard: Surface Coatings and Colourants (Corrosive) Group Standard 2020

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16.0 OTHER INFORMATION

References

https://echa.europa.eu/information-on-chemicals/cl-inventory-databas

https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/

https://www.epa.govt.nz/

RCNZ Approved HSNO CoP Preparation of Safety Data Sheets

https://www.epa.govt.nz/assets/Uploads/Documents/Hazardous-Substances/GHS2/Guide to Classifying Hazardous Substances in NZ.pdf

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This version replaces all previous versions.

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

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