MATERIAL SAFETY DATA SHEET West System Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM[®] 206™ Slow Hardener.

 PRODUCT CODE:
 206

 CHEMICAL FAMILY:
 Amine.

CHEMICAL NAME: Modified aliphatic polyamine.

FORMULA: Not applicable.

MANUFACTURER: EMERGENCY TELEPHONE NUMBERS:

West System Inc. Transportation

102 Patterson Ave. CHEMTREC:.....800-424-9300 (U.S.)

Bay City, MI 48706, U.S.A. 703-527-3887 (International)

Phone: 866-937-8797 or 989-684-7286 Non-transportation

www.westsystem.com Poison Hotline:800-222-1222

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION
Polyoxypropylenediamine	9046-10-0	30-50%
Polymer of epichlorohydrin, bisphenol-A, and DETA	31326-29-1	< 30%
Tetraethylenepentamine (TEPA)	112-57-2	< 30%
Diethylenetriamine (DETA)	111-40-0	< 12%
Reaction products of TETA and propylene oxide	26950-63-0	< 12%
Triethylenetetramine (TETA)	112-24-3	< 12%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS Hazard Rating: Health - 3 Flammability - 1 Reactivity - 0

DANGER! Corrosive. Strong skin sensitizer. May cause severe chemical burns to eyes and skin. Harmful if swallowed. Harmful if absorbed through the skin. Can cause respiratory irritation. Light-yellow colored liquid with ammonia odor.

PRIMARY ROUTE(S) OF ENTRY:	Skin and eye contact, inhalation.
POTENTIAL HEALTH EFFECTS:	
	Excessive exposure to vapor or mist is irritating to the upper ning, and discomfort in eyes, nose, throat and chest. Severe cases may
CHRONIC INHALATION:in susceptible individuals. Repeated exposures	
EYE CONTACT:corneal injury resulting in permanent vision impa	

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	INGESTION:
	SYMPTOMS OF OVEREXPOSURE:
	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Existing respiratory conditions, such as asthma and bronchitis. Existing skin conditions.
4.	FIRST AID MEASURES:
	FIRST AID FOR EYES:
	FIRST AID FOR SKIN:
	FIRST AID FOR INHALATION: Move to fresh air and consult physician if effects occur.
	FIRST AID FOR INGESTION: Give conscious person at least 2 glasses of water. Do not induce vomiting. If vomiting should occur spontaneously, keep airway clear. Get medical attention.
5.	FIRE FIGHTING MEASURES:
	FLASH POINT: > 200°F (Open Cup)
	EXTINGUISHING MEDIA: Water spray, dry chemical, alcohol foam and carbon dioxide (CO ₂).
	FIRE AND EXPLOSION HAZARDS:
	SPECIAL FIRE FIGHTING PROCEDURES: Use full-body protective gear and a self-contained breathing apparatus. If spill has ignited, use water spray to disperse vapors and protect personnel attempting to stop leak. Use water to cool fire-exposed containers.
6.	ACCIDENTAL RELEASE MEASURES:
	SPILL OR LEAK PROCEDURES: Stop leak without additional risk. Wear proper personal protective equipment. Dike and contain spill. Ventilate area. Large spill - dike and pump into appropriate container for recovery. Small spill - dilute with water and recover or use inert, non-combustible absorbent material (<i>e.g.</i> , sand) and shovel into suitable container. Do not use sawdust, wood chips or other cellulosic materials to absorb the spill, as the possibility for spontaneous combustion exists. Wash spill residue with warm, soapy water if necessary.
7.	HANDLING AND STORAGE:
	STORAGE TEMPERATURE (min./max.): 40°F (4°C) / 90°F (32°C).
	STORAGE:
	HANDLING PRECAUTIONS:
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION:
	EYE PROTECTION GUIDELINES:

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RESPIRATORY/VENTILATION GUIDELINES:

General mechanical or local exhaust ventilation. With inadequate ventilation, use a NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge.

OCCUPATIONAL EXPOSURE LIMITS:......Not established for product as whole. Refer to OSHA's Permissible Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients.

9. PHYSICAL AND CHEMICAL PROPERTIES:

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PHYSICAL FORM	
COLOR	Light-yellow.
ODOR	Ammonia-like.
BOILING POINT	> 480°F.
MELTING POINT/FREEZE POINT	No data.
pH	11.4
SOLUBILITY IN WATER	
SPECIFIC GRAVITY	1.01
BULK DENSITY	8.45 pounds/gallon.
VAPOR PRESSURE	< 1 mmHg @ 20°C.
VAPOR DENSITY	Heavier than air.
VISCOSITY	200 cPs
% VOLATILE BY WEIGHT	EPA Method 24, as described in 40 CFR Pa
determine the Volatile Matter Content of mixed e	epoxy resin and hardener. This method states that two
systems should be tested by determining weight	t loss after mixing the individual components together a
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10. REACTIVITY:

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HAZARDOUS POLYMERIZATION:	Will not occur.
	May react violently when in contact with oxidizing materials, ride. Reactions may be slow initially, then may rapidly generate

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DECOMPOSITION PRODUCTS:Burning or excessive heat may produce toxic levels of ammonia, oxides of nitrogen and irritating aldehydes.

11. TOXICOLOGICAL INFORMATION:

heat and vapor pressure.

No specific oral, inhalation or dermal toxicology data is known for this product.

Oral: Expected to be moderately toxic. Inhalation: Expected to be moderately toxic. Dermal: Expected to be moderately toxic.

Adsorption of phenolic solutions through the skin may be very rapid and can cause death. Lesser exposures can cause damage to the kidney, liver, pancreas and spleen; and cause edema of the lungs. Chronic exposures can cause death from liver and kidney damage.

CARCINOGENICITY:

NTP	No.
IARC	No.
OSHA	No

This product contains no known carcinogens in concentrations greater than 0.1%.

12. ECOLOGICAL INFORMATION:

Wastes from this product may present long term environmental hazards. Do not allow into sewers, on the ground or in any body of water.

13. **DISPOSAL CONSIDERATIONS:**

Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION:

D.O.T. SHIPPING NAME:	Polyamines, liquid, corrosive, n.o.s.
TECHNICAL SHIPPING NAME:	
D.O.T. HAZARD CLASS:	Class 8
U.N./N.A. NUMBER:	UN 2735
PACKING GROUP:	PG II

15. REGULATORY INFORMATION:

OSHA STATUS:	Corrosive; strong irritant; sensitizer.
TSCA STATUS:	All components are listed on TSCA inventory.
SARA TITLE III:	

SECTION 313 TOXIC CHEMICALS:.....None.

STATE REGULATORY INFORMATION:

The following chemicals are specifically listed or otherwise regulated by individual states. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME	CONCENTRATION	STATE CODE
Tetraethylenepentamine 112-57-2 Tetraethylenetriamine	<30%	FL, MA, NJ, PA
112-24-3	<12%	FL, MA, NJ, PA

16. OTHER INFORMATION:

REASON FOR ISSUE:	Update in Section 1.
PREPARED BY:	
APPROVED BY:	G. M. House
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	
SUPERSEDES DATE:	
MSDS NUMBER:	•

Note: The Hazardous Material Indexing System (HMIS), cited in the Emergency Overview of Section 3, uses the following index to assess hazard rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; and 4 = Severe.

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