# MATERIAL SAFETY DATA SHEET West System Inc.

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ...... WEST SYSTEM® 209™ Extra Slow Hardener

**CHEMICAL NAME:** ...... Modified 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

<u>CAS #</u>	<b>CONCENTRATION</b>
68953-36-6	< 50%
trade secret	< 25%
9046-10-0	< 25%
2855-13-2	< 25%
1761-71-3	< 15%
112-57-2	< 15%
1477-55-0	< 15%
trade secret	< 15%
	68953-36-6 trade secret 9046-10-0 2855-13-2 1761-71-3 112-57-2 1477-55-0

# 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

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

DANGER! Corrosive. Severe eye irritant. Severe skin irritant. Severe respiratory irritant. May cause skin sensitization. Harmful if swallowed. Harmful if in contact with skin. Yellow colored liquid with ammonia odor.

May acuse persistent irritation or dermetitie Deposted

CURONIC CIVIN CONTACT.

	contact may cause allergic reaction/sensitization and possible skin tissue destruction. Repeated absorption may cause internal organ damage.
	<b>EYE CONTACT:</b>
	INGESTION:
	<b>SYMPTOMS OF OVEREXPOSURE:</b>
	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Existing skin and respiratory conditions (allergies, dermatitis, asthma, bronchitis).
4.	FIRST AID MEASURES:
	FIRST AID FOR EYES: Immediately flush with water for at least 15 minutes. Get prompt medical attention.
	FIRST AID FOR SKIN:
	<b>FIRST AID FOR INHALATION:</b>
	FIRST AID FOR INGESTION:
5.	FIRE FIGHTING MEASURES:
	<b>FLASH POINT:</b> > 200°F.
	<b>EXTINGUISHING MEDIA:</b> Water spray, dry chemical, alcohol foam and carbon dioxide (CO <sub>2</sub> ).
	<b>FIRE AND EXPLOSION HAZARDS:</b>
	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 (*e.g.*, 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.

8.

9.

7.	HANDLING	AND S	TORAGE:

STORAGE TEMPERATURE (min./max.):	. 40°F (4°C) / 90°F (32°C).	
	. Minimum feasible handling temperatures should be where is recommended. Keep containers tightly closed.	
HANDLING PRECAUTIONS:		
EXPOSURE CONTROLS/PERSONAL PROTECTION	<u>ON:</u>	
EYE PROTECTION REQUIREMENTS:	. Chemical splash goggles or full-face shield.	
SKIN PROTECTION GUIDELINES:rubber, neoprene, butyl rubber or natural rubber) an	. Wear liquid-proof, chemical resistant gloves (nitrile-butyl d full body-covering clothing.	
RESPIRATORY/VENTILATION REQUIREMENTS: General mechanical or local exhaust ventilation. In the absence of adequate ventilation controls, use a NIOSH approved air purifying respirator with an organic vapor cartridge.		
ADDITIONAL PROTECTIVE MEASURES:and emergency eye wash. Provide proper wash/cle	. Use where there is immediate access to safety shower canup facilities for proper hygiene.	
OCCUPATIONAL EXPOSURE LIMITS:Permissible Exposure Level (PEL) or the ACGIH Gu	. Not established for product as whole. Refer to OSHA's uidelines for information on specific ingredients.	
PHYSICAL AND CHEMICAL PROPERTIES:		
PHYSICAL FORM	. Yellow. . Ammonia-like. . > 480°F.	
pH	. 11.5	
SOLUBILITY IN WATER	. 0.963	
VAPOR PRESSURE		
VAPOR DENSITY	. Heavier than air.	
VISCOSITY	. ช5 cP. . EPA Method 24, as described in 40 CFR Part 60, was	
used to determine the Volatile Matter Content of mix	ked epoxy resin and hardener. This method states that	
two-component coating systems should be tested by	y determining weight loss after mixing the individual them in an appropriate solvent, and subjecting them to a	
	r, mixed together at 3:1 by weight, has a density of 1148	
g/L (9.58 lbs/gal). The combined VOC content for 1		

# 10. REACTIVITY:

STABILITY: ...... Stable.

HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOOG I GETMERIZATION	vviii riot occur

**INCOMPATIBILITIES:** Strong oxidants, acids.

**DECOMPOSITION PRODUCTS:**Burning will produce toxic fumes.

# 11. TOXICOLOGICAL INFORMATION:

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

#### **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:

**WASTE DISPOSAL METHOD:** ...... Evaluation of this product using RCRA criteria shows that it is not a hazardous waste, either by listing or characteristics, in its purchased form. It is the responsibility of the user to determine proper disposal methods.

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:	. (Polyoxypropylenediamine)
D.O.T. HAZARD CLASS:	. Class 8
U.N./N.A. NUMBER:	. UN 2735
PACKING GROUP:	. PG III

#### 15. REGULATORY INFORMATION:

OSHA STATUS:	
	All components are listed on TSCA inventory.
SARA TITLE III:	·
SECTION 313 TOXIC CHEMICALS	S: 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.

West System Inc.

# COMPONENT NAME CONCENTRATION STATE CODE

None known.

#### **16. OTHER INFORMATION:**

REASON FOR ISSUE: Update in 1.

PREPARED BY: T. J. Atkinson

APPROVED BY: G. M. House

TITLE: Health, Safety & Environmental Manager

APPROVAL DATE: January 3, 2005

SUPERSEDES DATE: January 5, 2004

MSDS NUMBER: 209-05a.

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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