MATERIAL SAFETY DATA SHEET West System Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	WEST SYSTEM [®] 209™ Extra Slow Hardener
PRODUCT CODE:	
CHEMICAL FAMILY:	Amine.
CHEMICAL NAME:	Modified polyamine.
FORMULA:	Not applicable.

MANUFACTURER:

West System Inc. 102 Patterson Ave. Bay City, MI 48706, U.S.A. Phone: 866-937-8797 or 989-684-7286 www.westsystem.com

EMERGENCY TELEPHONE NUMBERS:

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	<u>CAS #</u>	CONCENTRATION
TOFA, reaction product with TEPA	68953-36-6	< 50%
Polycycloaliphatic amine	trade secret	< 25%
Polyoxypropylenediamine	9046-10-0	< 25%
Isophorone diamine	2855-13-2	< 25%
4,4'-Methylenebiscyclohexane	1761-71-3	< 15%
Tetraethylenepentamine (TEPA)	112-57-2	< 15%
Benzene-1,3-dimethaneamine	1477-55-0	< 15%
Modified amine	trade secret	< 15%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
HMIS Hazard Rating:	Health - 3	Flammability - 1	Physical Hazards - 0
DANGER! Corrosive. Severe eye irritant. swallowed. Harmful if in contact with skin.			May cause skin sensitization. Harmful if
			May cause skin sensitization. Harmfu

PRIMARY ROUTE(S) OF ENTRY: Skin contact, eye contact, inhalation.

POTENTIAL HEALTH EFFECTS:

ACUTE INHALATION: Exposure to high concentrations of vapor causes irritation to the respiratory tract. Coughing and chest pain may result.

INGESTION: Corrosive. Causes burning of the mouth and throat. May cause bleeding of the gastrointestinal tract and vomiting. Aspiration hazard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Existing skin and respiratory conditions (allergies, dermatitis, asthma, bronchitis).

4. FIRST AID MEASURES:

5. FIRE FIGHTING MEASURES:

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.

7. HANDLING AND STORAGE:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EYE PROTECTION REQUIREMENTS: Chemical splash goggles or full-face shield.

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.

Note: West System, Inc. has conducted an air sampling study using this product or similarly formulated products. The results indicate that the components sampled for (amines) were either so low that they were not detected at all or they were well below OSHA's permissible exposure levels.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM	Liquid.
COLOR	Yellow.
ODOR	Ammonia-like.
BOILING POINT	> 480°F.
MELTING POINT/FREEZE POINT	No data.
рН	11.5
SOLUBILITY IN WATER	Appreciable.
SPECIFIC GRAVITY	0.963
BULK DENSITY	8.04 pounds/gallon.
VAPOR PRESSURE	< 1 mmHg @ 20°C.
VAPOR DENSITY	
VISCOSITY	85 cP.
% VOLATILE BY WEIGHT	ASTM 2369-07 was used to determine the Volatile Matter Content of
mixed epoxy resin and hardener. 105 Resin and 209 Hardener, lbs/gal). The combined VOC content for 105/209 is 11.56 g/L (0	mixed together at 3.6:1 by weight, has a density of 1148 g/L (9.58 .10 lbs/gal).

10. <u>REACTIVITY:</u>

STABILITY:	le.
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HAZARDOUS POLYMERIZATION: Will not occur.

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:

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:	
U.N./N.A. NUMBER:	. UN 2735
PACKING GROUP:	. PG III

15. <u>REGULATORY INFORMATION:</u>

OSHA STATUS:	Corrosive; severe irritant; possible sensitizer.
	All components are listed on TSCA inventory or otherwise comply with
TSCA requirements.	

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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
None known.		

16. OTHER INFORMATION:

REASON FOR ISSUE:	Changes made in Sections 3, 8, 10 & 15.
PREPARED BY:	
APPROVED BY:	G. M. House
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	
SUPERSEDES DATE:	January 3, 2005
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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