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:

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:

Transportation

Non-transportation

Poison Hotline:800-222-1222

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS Hazard Rating: Health - 3 Flammability - 1 Physical Hazards - 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.

POTENTIAL HEALTH EFFECTS:

ACUTE INHALATION:Excessive exposure to vapor or mist is irritating to the upper respiratory tract, causing nasal discharge, coughing, and discomfort in eyes, nose, throat and chest. Severe cases may cause difficult breathing and lung damage.

INGESTION:Moderately toxic. May cause gastrointestinal irritation or ulceration. May cause burns of the mouth and throat. Aspiration hazard.

SYMPTOMS OF OVEREXPOSURE: Skin irritation, burns and blistering. Irritation of the nose and throat, possible headache. Eye irritation and blurred vision.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Existing respiratory conditions, such as asthma and bronchitis. Existing skin conditions.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	<u>CAS #</u>	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%

4. FIRST AID MEASURES

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	FIRST AID FOR EYES: attention.	Immediately flush with water for at least 15 minutes. Get prompt medical
	FIRST AID FOR SKIN: water. Do not apply greases or ointments. Get medical attention if several contents are contents.	
	FIRST AID FOR INHALATION:	Move to fresh air and consult physician if effects occur.
	FIRST AID FOR INGESTION: Aspiration hazard. If vomiting should occur spontaneously, keep airwa	Give conscious person at least 2 glasses of water. Do not induce vomiting. y clear. Get medical attention.
5.	FIRE FIGHTING MEASURES	
	FLASH POINT:	> 200°F (Open Cup)
	EXTINGUISHING MEDIA: powder.	Dry chemical, alcohol foam. carbon dioxide (CO ₂), dry sand, limestone
	but not liminted to: oxides of nitrogen, volatile amines, ammonia, nitric cellulosic material, spontaneous combustion can occur under certain cogenerated as the air oxidizes the amine. If the heat is not dissipated quality	onditions. If hardener is spilled into or mixed with sawdust, heat is
	SPECIAL FIRE FIGHTING PROCEDURES:	Use full-body protective gear and a self-contained breathing apparatus. er run-off from fighting fire to enter drains or other water courses.
6.	ACCIDENTAL RELEASE MEASURES	
	SPILL OR LEAK PROCEDURES: equipment. Dike and contain spill. Ventilate area. Large spill - dike are use inert, non-combustible absorbent material (e.g., sand, clay) and sh cellulosic materials to absorb the spill, as the possibility for spontaneounecessary.	nd pump into appropriate container for recovery. Small spill - recover or lovel into suitable container. Do not use sawdust, wood chips or other
7.	HANDLING AND STORAGE	
	STORAGE TEMPERATURE (min./max.):	40°F (4°C) / 90°F (32°C).
	STORAGE:	Store in cool, dry place with adequate ventilation.
	heated material. Avoid contact with skin and eyes. Wash thoroughly a	Use only with adequate ventilation. Do not breath vapors or mists from ifter handling. When mixed with epoxy resin this product causes an to damage or ignite surrounding materials and emit fumes and vapors that
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION	
	EYE PROTECTION GUIDELINES:	Chemical splash goggles, full-face shield or full-face respirator.
	SKIN PROTECTION GUIDELINES:	Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene,
	RESPIRATORY/VENTILATION GUIDELINES:ventilation, use a NIOSH/MSHA approved air purifying respirator with a	
		his product or similarly formulated products. The results indicate that the ot detected at all or they were well below OSHA's permissible exposure
	ADDITIONAL PROTECTIVE MEASURES: wash. Provide proper wash/cleanup facilities for proper hygiene. Conta speaking, working cleanly and following basic precautionary measures under normal use conditions.	
	OCCUPATIONAL EXPOSURE LIMITS: Exposure Level (PEL) or the ACGIH Guidelines for information on spec	
9.	PHYSICAL AND CHEMICAL PROPERTIES	
	PHYSICAL FORM	•

	ODORA	
	BOILING POINT	
	MELTING POINT/FREEZE POINTN	
	pH11	
	SOLUBILITY IN WATER	! !
	BULK DENSITY	
	VAPOR PRESSURE	. •
	VAPOR PRESSURE H	
	VISCOSITY 20	
		STM 2369-07 was used to determine the Volatile Matter Content of mixed
		r at 5:1 by weight, has a density of 1176 g/L (9.81 lbs/gal). The combined
	VOC content for 105/206 is 9.59 g/L (0.08 lbs/gal).	Tat 6.1 by Weight, has a density of 1170 g/2 (5.61 bb/gar). The combined
	(((((((((((((((((((
10.		
	STABILITY:	table.
	HAZARDOUS POLYMERIZATION:	/ill not occur.
	INCOMPATIBILITIES:	
	DECOMPOSITION PRODUCTS: Vinclude, but not liminted to: oxides of nitrogen, volatile amines, ammonia	ery toxic fumes and gases when burned. Decomposition products may a, nitric acid, nitrosamines.
11.	TOXICOLOGICAL INFORMATION	
	No specific oral, inhalation or dermal toxicology data is known for this pro-	oduct.
	Oral: Expected to be modera	
	Inhalation: Expected to be modera	
	Dermal: Expected to be modera	tely toxic.
	CARCINOGENICITY: NTPN.	0
	IARCN	
	OSHAN	
	No ingredient of this product present at levels greater than or equa NTP or IARC.	I to 0.1% is identified as a carcinogen or potential carcinogen by OSHA,
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: Endeaded waste, either by listing or characteristics, in its purchased for methods.	
	Incinerate, recycle (fuel blending) or reclaim may be preferred methods	when conducted in accordance with federal, state and local regulations.
14.	TRANSPORTATION INFORMATION	
	DOT	
	D.O.T. SHIPPING NAME:	
	TECHNICAL SHIPPING NAME:	
	D.O.T. HAZARD CLASS:	
	U.N./N.A. NUMBER:	
	IATA	
	SHIPPING NAME:Pi	
	TECHNICAL SHIPPING NAME:PI	
	HAZARD CLASS:C	lass 8
	U.N. NUMBER:U	
	PACKING GROUP:P	G II
15.	REGULATORY INFORMATION	
	OSHA STATUS:C	orrosive; strong irritant; sensitizer.
		•

TSCA STATUS: 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
Tetraethylenepentamine	000/	DI MA NII DA
112-57-2 Tetraethylenetriamine	<30%	RI, MA, NJ, PA
112-24-3 Diethylenetriamine	<12%	RI, MA, NJ, PA
111-40-0	<12%	RI, MA, NJ, PA

16. OTHER INFORMATION

REASON FOR ISSUE: Changes made in Sections 5,10,11 & 14. APPROVED BY:G. M. House TITLE: Health, Safety & Environmental Manager APPROVAL DATE: February 10, 2011 SUPERSEDES DATE: January 3, 2008 **MSDS NUMBER:** 206-11a

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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