MATERIAL SAFETY DATA SHEET West System Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

 PRODUCT CODE:
 655B

 CHEMICAL FAMILY:
 Amine.

CHEMICAL NAME: Modified polyamine. FORMULA: Not applicable.

MANUFACTURER:

EMERGENCY TELEPHONE NUMBERS:

West System Inc. 102 Patterson Ave.

Bay City, MI 48706, U.S.A.

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

www.westsystem.com

Transportation
CHEMTREC:.....800-424-9300 (U.S.)
703-527-3887 (International)

Non-transportation

Poison Hotline: 800-222-1222

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING Casuses skin irritation. Causes eye irritation. May cause respiratory tract irritation. Can cause allergic reaction and sensitization. May be harmful if swallowed. Caramel colored gel with slight ammonia odor.

POTENTIAL HEALTH EFFECTS:

ACUTE INHALATION:Exposure to high concentrations of vapor from heated product can cause irritation to the respiratory tract or lightheadedness.

CHRONIC INHALATION:Can cause respiratory tract irritation or central nervous system symptoms, such as lightheadedness or headaches.

ACUTE SKIN CONTACT: Moderate irritant to skin tissue. Can cause allergic reaction and possible sensitization

CHRONIC SKIN CONTACT: May cause persistent irritation, dermatitis and sensitization.

EYE CONTACT: Moderate to severe irritant to eye tissues. Vapors may cause blurred vision when absorbed into eye tissue.

INGESTION:May cause irritation of the mouth and throat. May pose an aspiration hazard. No additional effects due to ingestion are known.

SYMPTOMS OF OVEREXPOSURE:......Persistent skin irritation or dermatitis, sensitization or allergic reaction. Irritation to the respiratory tract, headache, nausea. Redness and irritation of the eye.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Existing skin and respiratory conditions (skin allergies such as to poison ivy, poison oak; dermatitis, asthma, bronchitis).

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	<u>CAS #</u>	CONCENTRATION (%)
Amine terminated copolymer	68683-29-4	30-60
Phenalkamine	868765-93-9	10-30
Cashew, nutshell liquid, 2-hydroxyethyl ethers	232268-65-4	5-20
Tris-2,4,6-(dimethylaminomethyl)phenol reaction products with		
triethylenetetramine	1101788-77-5	1-10
Triethylenetetramine	112-24-3	1-10
Synthetic amorphous silica	112945-52-5	1-5
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	1-5
Aminoethylpiperazine	140-31-8	1-5
1,3-benzenedimethanamine	1477-55-0	1-5

MSDS# 655B-13b Last Revised: 19DEC13

4.	FIRST AID MEASURES		
	FIRST AID FOR EYES:attention.	Immediately flush with water for at least 15 minutes. Get prompt medical	
	FIRST AID FOR SKIN: hand cleaner.	Remove contaminated clothing. Immediately wash skin with waterless	
	FIRST AID FOR INHALATION:attention if symptoms persist or worsen.	If symptoms occur as noted in Section 3, remove to fresh air. Get medical	
	FIRST AID FOR INGESTION:		
5.	FIRE FIGHTING MEASURES		
	FLASH POINT:	> 300°F.	
	EXTINGUISHING MEDIA:	Water spray, dry chemical, foam and carbon dioxide (CO ₂).	
	FIRE AND EXPLOSION HAZARDS:		
		Use full-body protective gear and a self-contained breathing apparatus. If sonnel attempting to stop leak. Use water to cool fire-exposed containers.	
6.	ACCIDENTAL RELEASE MEASURES		
	water and recover or use inert, non-combustible absorbent material	and pump into appropriate container for recovery. Small spill - dilute with (e.g., sand) and shovel into suitable container. Do not use sawdust, wood ty for spontaneous combustion exists. Residue from spill area can leave	
7.	HANDLING AND STORAGE		
	STORAGE TEMPERATURE (min./max.):	40°F (4°C) / 90°F (32°C).	
	STORAGE: above 100°F, nitrogen atmosphere is recommended. Keep contained	Minimum feasible handling temperatures should be maintained. If stored ers tightly closed.	
	HANDI INO PRECALITIONS		
	heated material. Avoid contact with skin and eyes. Wash thorough	Use only with adequate ventilation. Do not breath vapors or mists from y after handling. When mixed with epoxy resin this product causes an eat to damage or ignite surrounding materials and emit fumes and vapors	
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PHYSICAL AND CHEMICAL PROPERTIES 9. PHYSICAL FORMGel. COLOR......Caramel. **BOILING POINT**..... > 480°F. MELTING POINT/FREEZE POINT No data. VAPOR DENSITY...... Heavier than air. VISCOSITY...... No data. epoxy resin and hardener. 655 Resin and 655 Hardener, mixed together at 1.2:1 by weight, has a density of 1077 g/L (8.99 lbs/gal). The combined VOC content for 655 Resin/655 Hardener is 7.6 g/L (0.06 lbs/gal). STABILITY AND REACTIVITY 10. HAZARDOUS POLYMERIZATION: Will not occur. INCOMPATIBILITIES: Strong oxidants, acids and reducing agents. include, but not liminted to: oxides of nitrogen, volatile amines, ammonia when heated. **TOXICOLOGICAL INFORMATION** CARCINOGENICITY: NTP.......No. IARC......No. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

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

DOT Non-Bulk	
SHIPPING NAME:	Not regulated.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Not applicable.
U.N./N.A. NUMBER:	Not applicable.
PACKING GROUP:	Not applicable.
ICAO/IATA	
SHIPPING NAME:	Not regulated.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Not applicable.
U.N./N.A. NUMBER:	Not applicable.
PACKING GROUP:	Not applicable.
MARINE POLLUTANT:	Not applicable.

IMDG

INIDG	
SHIPPING NAME:	Not regulated.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Not applicable.
U.N. NUMBER:	Not applicable.
PACKING GROUP:	Not applicable.
EmS:	Not applicable.
MARINE POLLUTANT:	

15. REGULATORY INFORMATION

OSHA STATUS: Irritant; possible sensitizer.
TSCA STATUS: All components are listed on TSCA inventory or are in compliance with TSCA regulations.

Canada WHMIS Classification: D2B – Toxic material causing other toxic effects.

CEPA Chemical Inventory Status: All components are listed or are otherwise compliant with CEPA requirements. Phenalkamine, CAS# 868765-93-9, is NDSL listed only, as NDSL #18162-0. Tris-2,4,6-(dimethylaminomethyl)phenol reaction products with triethylenetetramine, CAS# 1101788-77-5, is NDSL listed only.

SARA TITLE III:

SECTION 313 TOXIC CHEMICALS: None known.

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 STATE CODE

Tetraethylenetriamine
112-24-3 MA, NJ, PA
1,3-benzenedimethanamine
1477-55-0 MA, NJ, PA

16. OTHER INFORMATION

REASON FOR ISSUE:

PREPARED BY:

Glenn House

APPROVED BY:

Glenn House

TITLE:

E,H&S Manager

APPROVAL DATE:

December 19, 2013

SUPERSEDES DATE:

April 26, 2013

MSDS NUMBER:

Changes made in sections: 3

Glenn House

E,H&S Manager

December 19, 2013

April 26, 2013

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