# MATERIAL SAFETY DATA SHEET Gougeon Brothers, Inc.

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ...... WEST SYSTEM® 205<sup>TM</sup> Fast Hardener.

PRODUCT CODE: 205
CHEMICAL FAMILY: Amine.

**CHEMICAL NAME:**..... Modified aliphatic polyamine.

FORMULA: ..... Not applicable.

MANUFACTURER: EMERGENCY TELEPHONE NUMBERS:

Gougeon Brothers, Inc.

Transportation

100 Patterson Avenue CHEMTREC: .......800-424-9300

Bay City, MI 48706, U.S.A. Non-transportation

Phone: 989-684-7286 Poison Hotline: ......800-222-1222

# 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	<u>CAS #</u>	<b>CONCENTRATION</b>
Polyethylenepolyamine	29320-38-5	< 25%
Reaction products of TETA with Phenol/Formaldehyde	32610-77-8	< 25%
Triethylenetetramine (TETA)	112-24-3	< 15%
Hydroxybenzene	108-95-2	< 12%
Reaction Products of TETA and propylene oxide	26950-63-0	< 12%
Tetraethylenepentamine (TEPA)	112-57-2	< 12%

## 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

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

DANGER! Corrosive. Skin sensitizer. Moderate to severe skin, eye and respiratory tract irritant. May cause allergic reactions. Amber colored liquid with ammonia odor.

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

## **POTENTIAL HEALTH EFFECTS:**

**ACUTE INHALATION:** May cause respiratory tract irritation. Coughing and chest pain may result.

MSDS #205-04a Last Revised: 05JAN04

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ACUTE SKIN CONTACT:	May cause strong irritation, redness. Possible mild
CHRONIC SKIN CONTACT:reaction and possible sensitization in susceptible ind	
<b>EYE CONTACT:</b> damage. Concentrated vapors can be absorbed in ey and possible corneal injury or conjunctivitis.	Moderate to severe irritation with possible tissue e tissue and cause eye injury. Contact causes discomfort
INGESTION: gastrointestinal tract irritation and pain.	Single dose oral toxicity is moderate. May cause
<b>SYMPTOMS OF OVEREXPOSURE:</b> Possible allergic reaction seen as hives and rash. Ey long term skin absorption overexposures.	Respiratory tract irritation. Skin irritation and redness. e irritation. Possible liver and kidney disorders upon
<b>MEDICAL CONDITIONS AGGRAVATED BY I</b> Chronic respiratory disease, asthma. Eye disease. S	
FIRST AID MEASURES:	
FIRST AID FOR EYES:	Immediately flush with water for at least 15 minutes.
FIRST AID FOR SKIN: with soap and water. Do not apply greases or ointme	Remove contaminated clothing. Immediately wash skin ents. Get medical attention if severe exposure.
FIRST AID FOR INHALATION:	Move to fresh air and consult physician if effects occur.
FIRST AID FOR INGESTION:not induce vomiting. If vomiting should occur spont	Give conscious person at least 2 glasses of water. Do aneously, keep airway clear. Get medical attention.
FIRE FIGHTING MEASURES:	
FLASH POINT:	>270°F (PMCC)
EXTINGUISHING MEDIA:	Water fog, alcohol foam, carbon dioxide (CO <sub>2</sub> ), dry
sawdust, wood chips, or other cellulosic material, sp	sawdust, heat is generated as the air oxidizes the amine.
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:**

## 7. HANDLING AND STORAGE:

**SHELF LIFE:**Two years or more in original sealed container.

**STORAGE:** Store in cool, dry place away from high temperatures and moisture. Keep container tightly closed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

**EYE PROTECTION GUIDELINES:** ...... Chemical splash-proof goggles or face shield.

**SKIN PROTECTION GUIDELINES:** ...... Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.

#### **RESPIRATORY/VENTILATION GUIDELINES:**

Use with adequate general and local exhaust ventilation to meet exposure limits. In poorly ventilated areas, use a NIOSH/MSHA approved respirator with an organic vapor cartridge.

#### ADDITIONAL PROTECTIVE MEASURES:

Use where there is immediate access to safety shower and emergency eye wash. Wash thoroughly after use. Contact lens should not be worn when working with this material.

**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:

PHYSICAL FORM	Liquid.
COLOR	Amber.

**ODOR** ...... Ammonia-like.

**BOILING POINT**.....>440°F.

**MELTING POINT/FREEZE POINT**...... Approximately 23°F.

	pH	
	SOLUBILITY IN WATER	Appreciable.
	SPECIFIC GRAVITY	
	BULK DENSITY	8.85 pounds/gallon.
	VAPOR PRESSURE	< 1 mmHg @ 20°C.
	VAPOR DENSITY	Heavier than air.
	VISCOSITY	
	used to determine the Volatile Matter Content of mix two-component coating systems should be tested by components together at the proper ratio, dissolving t	hem in an appropriate solvent, and subjecting them to a mixed together at 5:1 by weight, has a density of 1181
10.	REACTIVITY:	
	STABILITY:	Stable.
	HAZARDOUS POLYMERIZATION:	Will not occur.
		Avoid excessive heat. Avoid acids, oxidizing materials, loride). External heating or self-heating could result in ch a reaction were to take place in a waste drum, the
	<b>DECOMPOSITION PRODUCTS:</b> monoxide, carbon dioxide and oxides of nitrogen; ar	
11.	TOXICOLOGICAL INFORMATION:	
	No specific oral, inhalation or dermal toxicology dat	a is known for this product.
	Oral: Expected to be	moderately toxic.
	Inhalation: Expected to be	
	Dermal: Expected to be	
	Adsorption of phenolic solutions through the skin m can cause damage to the kidney, liver, pancreas and exposures can cause death from liver and kidney dar	
	CARCINOGENICITY:	
	NTP	No.
	IARC	
	OSHA	

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

#### 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.

Hydroxybenzene (phenol) (CAS # 108-95-2) biodegradability = 99.5% at 7 days.

#### 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.

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

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

OSHA STATUS:		. Corrosive; possible sensitizer.
		. All components listed on TSCA Inventory.
SARA TITLE III:		1
SECTION 313 TO	XIC CHEMICALS:	. This product contains hydroxybenzene (phenol) and i
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**SECTION 313 TOXIC CHEMICALS:** ............ This product contains hydroxybenzene (phenol) and is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## **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 /CAS NUMBER	CONCENTRATION	STATE CODE
Tetraethylenepentamine 112-57-2 Tetraethylenetriamine	<12%	FL, MA, NJ, PA
112-24-3	<15%	FL, MA, NJ, PA

# 16. OTHER INFORMATION:

REASON FOR ISSUE:	Update in Section 16.
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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