# MATERIAL SAFETY DATA SHEET Gougeon Brothers, Inc.

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

 PRODUCT NAME:
 WEST SYSTEM<sup>®</sup> 207™ Special Coating Hardener

 PRODUCT CODE:
 207

 CHEMICAL FAMILY:
 Amine.

 CHEMICAL NAME:
 Modified polyamine.

 FORMULA:
 Not applicable.

MANUFACTURER: Gougeon Brothers, Inc. 100 Patterson Avenue Bay City, MI 48706, U.S.A. Phone: 989-684-7286 **EMERGENCY TELEPHONE NUMBERS:** 

Transportation CHEMTREC: ......800-424-9300 Non-transportation Poison Hotline: ......313-745-5711

## 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	<u>CAS #</u>	<b>CONCENTRATION</b>
Polyoxypropylenediamine	9046-10-0	25-50%
Reaction products of isophorone diamine		
with phenol/formaldehyde	25265-17-2	< 25%
Isophoronediamine	2855-13-2	< 25%
Reaction products of benzene-1,3-dimethaneamine		
with hydroxybenzene and formaldehyde	57214-10-5	<25%
Hydroxybenzene	108-95-2	< 12%
m-Xylene diamine	1477-55-0	< 12%

# 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 absorbed through the skin. Straw-yellow colored liquid, ammonia odor.

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

# POTENTIAL HEALTH EFFECTS:

**EYE CONTACT:** Causes severe irritation, pain and possible permanent injury. Vapor absorption into the eye can cause blurred vision and injury.

**SYMPTOMS OF OVEREXPOSURE:** ...... Development of allergic reaction or sensitization. Skin irritation and redness. Respiratory irritation or tightness of chest. Conjunctivitis or corneal damage. Internal organ compalications.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Chronic respiratory disease (e.g., bronchitis, asthma). Skin conditions and allergies. Eye disorders.

## 4. FIRST AID MEASURES:

**FIRST AID FOR INHALATION:** ...... If symptoms occur as noted in Section 3, remove to fresh air. Get medical attention if symptoms persist or worsen.

# 5. <u>FIRE FIGHTING MEASURES:</u>

**FLASH POINT:** > 200°F (PMCC)

**EXTINGUISHING MEDIA:** ...... Water spray, dry chemical, alcohol foam and carbon dioxide (CO<sub>2</sub>).

**FIRE AND EXPLOSION HAZARDS:**......Burning can generate toxic fumes. When mixed with sawdust, wood chips, or other cellulosic material, spontaneous combustion can occur under certain conditions. If hardener is spilled into or mixed with sawdust, heat is generated as the air oxidizes the amine. If the heat is not dissipated quickly enough, it can ignite the sawdust.

**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:

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

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

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

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

General mechanical or local exhaust ventilation. In the absence of adequate ventilation, use a NIOSH approved air purifying respirator with an organic vapor cartridge.

**ADDITIONAL PROTECTIVE MEASURES:**..... Use where there is immediate access to safety shower and emergency eye wash. Provide proper wash/cleanup facilities for proper hygiene. 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	-
ODOR	Ammonia-like.
BOILING POINT	>480°F.
MELTING POINT/FREEZE POINT	No data.
рН	11.2
SOLUBILITY IN WATER	Appreciable.
SPECIFIC GRAVITY	1.01
BULK DENSITY	8.51 pounds/gallon.
VAPOR PRESSURE	< 1 mmHg @ 20°C.
VAPOR DENSITY	Heavier than air.
VISCOSITY	275 cPs.
% VOLATILE BY WEIGHT	EPA Method 24, as de

**% VOLATILE BY WEIGHT**...... EPA Method 24, as described in 40 CFR Part 60, was used to determine the Volatile Matter Content of mixed epoxy resin and hardener. This method states that two-component coating systems should be tested by determining weight loss after mixing the individual components together at the proper ratio, dissolving them in an appropriate solvent, and subjecting them to a temperature of 230°F. 105 Resin and 207 Hardener, mixed together at 3:1 by weight, has a density of 1154 g/L (9.63 lbs/gal). The combined VOC content for 105/207 is 100.6 g/L (0.84 lbs/gal).

# 10. <u>REACTIVITY:</u>

STABILITY: ..... Stable.

HAZARDOUS POLYMERIZATION: ...... Will not occur.

**INCOMPATIBILITIES:**...... Strong oxidizers, acids.

**DECOMPOSITION PRODUCTS:** ...... Ammonia, oxides of nitrogen, carbon monoxide, carbon dioxide, and possibly aldehydes and ketones.

# 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.

Adsorption of phenolic solutions through the skin may be very rapid and can cause death. Lesser exposures can cause damage to the kidney, liver, pancreas and spleen; and cause edema of the lungs. Chronic exposures can cause death from liver and kidney damage.

## **CARCINOGENICITY:**

NTP	No.
IARC	No.
OSHA	No.

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

## 12. ECOLOGICAL INFORMATION:

Environmental Fate 108-95-2 Phenol: Biodegradeability = 99.5% at 7 days.

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.

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

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

OSHA STATUS: ...... Corrosive; irritant; possible sensitizer; liver or kidney toxin. TSCA STATUS: ...... All components are listed on TSCA inventory. SARA TITLE III:

**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	<b>CONCENTRATION</b>	STATE CODE

None.

## 16. OTHER INFORMATION:

REASON FOR ISSUE:	Information update in Section 14.
PREPARED BY:	-
APPROVED BY:	G. M. House
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	
SUPERSEDES DATE:	January 5, 2001
MSDS NUMBER:	207-02a

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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