

MATERIAL SAFETY DATA SHEET

Gougeon Brothers, Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM® 501 White Pigment.
PRODUCT CODE: 501
CHEMICAL FAMILY: Epoxy resin.
CHEMICAL NAME: Epoxy resin with titanium dioxide pigment.
FORMULA: No information.

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

<u>INGREDIENT NAME</u>	<u>CAS#</u>	<u>CONCENTRATION</u>
Pigment	13463-67-7	55%
Epoxy Resin	25085-99-8	40%
Polypropylene Glycol Glycidyl Ether	9072-62-2	5%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS Hazard Rating: **Health - 2** **Flammability - 1** **Reactivity - 1**

CAUTION! May cause allergic skin response in certain individuals. May cause moderate skin irritation.
White paste with mild resin odor.

PRIMARY ROUTE(S) OF ENTRY: Skin contact.

POTENTIAL HEALTH EFFECTS:

ACUTE INHALATION: Not likely to cause acute effects unless heated to high temperatures. If product is heated, vapors generated can cause headache, nausea, dizziness and possible respiratory irritation if inhaled in high concentrations.

CHRONIC INHALATION: Not likely to cause chronic effects. Repeated exposure to high vapor concentrations may cause irritation of pre-existing lung allergies and increase the chance of developing allergy symptoms to this product.

ACUTE SKIN CONTACT: May cause allergic skin response in certain individuals. May cause moderate irritation to the skin such as redness and itching.

CHRONIC SKIN CONTACT: May cause sensitization in susceptible individuals. May cause moderate irritation to the skin.

EYE CONTACT: May cause irritation.

INGESTION: Low acute oral toxicity.

SYMPTOMS OF OVEREXPOSURE: Possible sensitization and subsequent allergic reactions usually seen as redness and rashes. Repeated exposure is not likely to cause other adverse health effects.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing skin and respiratory disorders may be aggravated by exposure to this product. Pre-existing lung and skin allergies may increase the chance of developing allergic symptoms to this product.

4. FIRST AID MEASURES:

FIRST AID FOR EYES: Flush immediately with water for at least 15 minutes. Consult a physician.

FIRST AID FOR SKIN: Remove contaminated clothing. Wipe excess from skin. Remove with waterless skin cleaner and then wash with soap and water. Consult a physician if effects occur.

FIRST AID FOR INHALATION: Remove to fresh air if effects occur. Consult a physician.

FIRST AID FOR INGESTION: If victim is conscious, give large quantities of water. Induce vomiting only at the instructions of a physician.

5. FIRE FIGHTING MEASURES:

FLASH POINT: 390°F (TCC).

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical, or water fog.

SPECIAL FIRE FIGHTING PROCEDURES:

Use a self-contained breathing apparatus and appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES: Soak up in absorbent material or scrape up. Residual can be removed with non-flammable solvent, but solvent should be used sparingly and with appropriate precautions.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE (min./max.): 40°F (4°C)/100°F (38°C).

SHELF LIFE:..... Three years or longer, if stored properly.

STORAGE:..... Store in cool, dry place. Store in tightly sealed containers to prevent moisture absorption and loss of volatiles. Excessive heat over long periods of time will degrade the resin.

HANDLING PRECAUTIONS: Avoid prolonged or repeated skin contact. Wash thoroughly after handling. Launder contaminated clothing before reuse. Avoid inhalation of vapors from heated product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EYE PROTECTION GUIDELINES: Safety glasses with side shields or chemical splash goggles.

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:

Good room ventilation is usually adequate for most operations. Wear a NIOSH approved respirator with an organic vapor cartridge whenever exposure to vapor in concentrations above applicable limits is likely.

ADDITIONAL PROTECTIVE MEASURES:

Practice good caution and personal cleanliness to avoid skin and eye contact. Avoid skin contact when removing gloves and other protective equipment. Wash thoroughly after handling.

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 Paste.
COLOR..... White.
ODOR Mild resin odor.
BOILING POINT No data.
MELTING POINT/FREEZE POINT..... No data.
pH No data.
SOLUBILITY IN WATER..... Insoluble.
SPECIFIC GRAVITY 1.9
BULK DENSITY No data.
VAPOR PRESSURE No data.
VAPOR DENSITY No data.
% VOLATILE BY WEIGHT No data.

10. REACTIVITY:

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: Strong oxidizing agents, strong acids, bases, peroxides, ammonia, amines or mercaptans.

DECOMPOSITION PRODUCTS: Oxides of aluminum, carbon, and titanium; aldehydes.

11. TOXICOLOGICAL INFORMATION:

No specific oral, inhalation or dermal toxicology data is known for this product. Specific toxicology information for a bisphenol-A based epoxy resin present in this product is indicated below:

Oral: LD₅₀ > 5000 mg/kg (rats)

Inhalation: No Data.

Dermal: LD₅₀ = 20,000 mg/kg (skin absorption in rabbits)

TERATOLOGY: Diglycidyl ether bisphenol-A (DGEBA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

REPRODUCTIVE EFFECTS: DGEBA, in animal studies, has been shown not to interfere with reproduction.

MUTAGENICITY: DGEBA in animal mutagenicity studies were negative. In vitro mutagenicity were negative in some cases and positive in others.

CARCINOGENICITY:

NTP Product not listed.

IARC Product not listed.

OSHA Product not listed.

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol-A. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBA is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBA is not classified as a carcinogen.

Epichlorohydrin, an impurity in this product (<5 ppm) has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells. It has been established by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (Group 2A) based on the following conclusions: human evidence – inadequate; animal evidence – sufficient. It has been classified as an anticipated human carcinogen by the National Toxicology Program (NTP).

12. ECOLOGICAL INFORMATION:

No information.

13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD: Follow all applicable federal, state and local disposal regulations.

14. TRANSPORTATION INFORMATION:

D.O.T. SHIPPING NAME: Not regulated by D.O.T.

TECHNICAL SHIPPING NAME: Not applicable.

D.O.T. HAZARD CLASS: Not applicable.

U.N./N.A. NUMBER: Not applicable.

PACKING GROUP: Not applicable.

15. REGULATORY INFORMATION:

OSHA STATUS: Hazardous. Irritant. Possible sensitizer.

TSCA STATUS: All components are listed on the TSCA Inventory.

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**/CAS NUMBER****CONCENTRATION****STATE CODE**

Epichlorohydrin

106-89-8

< 5 ppm

¹CA

Phenyl glycidyl ether

122-60-1

< 5 ppm

¹CA

¹. These substances are known to the state of California to cause cancer or reproductive harm, or both.

16. OTHER INFORMATION:

REASON FOR ISSUE: Information update in Section 2, 3, 11, 15 and 16.

PREPARED BY: T. J. Atkinson

APPROVED BY: G. M. House

TITLE: Health, Safety & Environmental Manager

APPROVAL DATE: January 5, 2001

SUPERSEDES DATE: January 3, 1998

MSDS NUMBER: 501-01a

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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