# SAFETY DATA SHEET

Transportation

Non-transportation

**EMERGENCY TELEPHONE NUMBERS (24 HRS):** 

Poison Hotline: ...... 800-222-1222

703-527-3887 (International)

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	WEST SYSTEM <sup>®</sup> 501 White Pigment
APPLICABLE PRODUCT CODES:	
CHEMICAL FAMILY:	Pigmented epoxy resin mixture.
INTENDED PRODUCT USES:	Pigment for epoxy resins.
PRODUCT RESTRICTIONS:	None identified.
SDS VERSION:	501-2022a

## MANUFACTURER:

Gougeon Brothers, Inc. 100 Patterson Ave. Bay City, MI 48706, U.S.A. Phone: 866-937-8797 or 989-684-7286 www.westsystem.com

#### 2. HAZARDS IDENTIFICATION

## **Classification of Substance or Mixture**

Skin corrosion/irritation, Category 2 Skin sensitizer, Category 1 Eye damage/irritation, Category 2 Germ cell mutagenicity, Category 2 Chronic aquatic toxicity, Category 2

#### Label Elements

Hazard Pictogram(s):



Signal Word: WARNING

#### Hazard Statements:

H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H341 Suspected of causing genetic defects

H411 Toxic to aquatic life with long lasting effects

#### **Precautionary Statements:**

Prevention

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace.

P272 Contaminated work clothing should not be allowed P273 Avoid release to the environment.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

<u>Response</u>

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 If exposed or concerned: Get medical attention/advice

P333 + P313 If skin irritation or rash occurs: Get medical attention/advice.

P337 + P313 If eye irritation persists: Get medical attention/advice.

P362 + P364 Take off contaminated clothing and wash it before re-use.

P391 Collect spillage.

P405 Store locked up

<u>Disposal</u>

P501 Dispose of contents/container in accordance with local, regional and international regulations.

#### Other Hazards

None known.

INGREDIENT NAME	CAS #	CONCENTRATION (%)
Titanium dioxide (in solution, non-hazardous)	13463-67-7	30-60
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	39.6
Cresyl glycidyl ether	2210-79-9	12.4

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

#### FIRST AID MEASURES 4

immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician as precautionary measure.

sensitization. RESPONSE: Remove contaminated clothing. Wipe excess from skin. Apply waterless skin cleaner and then wash with soap and water. Consult a physician if effects occur.

RESPONSE: Remove to fresh air if respiratory irritation occurs and keep comfortable for breathing.

ingested under normal conditions of use. RESPONSE: Seek medical attention if a significant amount is ingested.

# FIRE FIGHTING MEASURES

Direct water stream.

combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: phenolics, carbon monoxide, and carbon dioxide.

protective equipment. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.

## ACCIDENTAL RELEASE MEASURES

appropriate safety and personal protective equipment as indicated in Section 8.

material (e.g., sand) and collect in a suitable, closed container. Warm, soapy water or non-flammable, safe solvent may be used to clean residual.

groundwater. See Section 12 for environmental impact information.

# HANDLING AND STORAGE

moisture absorption and loss of volatiles. Excessive heat over long periods of time will degrade the resin.

contaminated clothing before reuse or discard. Avoid inhalation of vapors from heated product. Precautionary steps should be taken when curing product in large quantities. When mixed with epoxy curing agents this product causes an exothermic, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

# EXPOSURE CONTROLS/PERSONAL PROTECTION

exposures below established limits.

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butyl rubber or natural rubber) and full body-covering clothing.

This product contains Titanium Dioxide (TiO2), which is listed by IARC as a Group 2B – possibly carcinogenic to humans by IARC. No significant inhalation exposure is expected to occur during use of products in which TiO2 is present in a liquid dispersion or when bound to other materials, such as in cured epoxies. Risk of overexposure depends on actual concentration in the formula and duration and level of exposure to dust from sanding or similar machining operations of solidified product. When sanding or machining solidified product and creating an airborne dust that may contain TiO2, consider the use of appropriate respiratory protection, such as a N95 particulate filter or greater.

Ingredient Name	CAS#	Exposure Limit Information
Titanium dioxide (in solution, non-hazardous)	13463-67-7	NIOSH REL 2.4mg/m3 for fine TiO2 and 0.3 mg/m3 for ultra fine; ACGIH 10mg/m3; OSHA 15 mg/m3
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	No data available.
Cresyl glycidyl ether	2210-79-9	No data available.

# PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: COLOR: ODOR : ODOR THRESHOLD: pH. MELTING POINT / FREEZING POINT BOILING POINT (760mm/Hg): FLASH POINT: AUTO IGNITION TEMPERATURE LOWER EXPLOSIVE LIMIT (LEL). UPPER EXPLOSIVE LIMIT (LEL). UPPER EXPLOSIVE LIMIT (UEL). VAPOR PRESSURE SPECIFIC GRAVITY/DENSITY (water = 1). BULK DENSITY. VAPOR DENSITY (air = 1) EVAPORATIOIN RATE (Butyl Acetate = 1). WATER SOLUBILITY (% BY WT.) PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow). KINEMATIC VISCOSITY: DECOMPOSITION TEMPERATURE: % VOLATILE BY WEIGHT: epoxy resin and hardener.	White. Mild. No data available No data available > 400°F (204°C) Estimated based on ingredient data. > 200°F (93°C) Based on ASTM D92 test results from similar product. No data available No data available No data available No data available 1.9 15.6 lbs./gal. (1.9 kg/L) < 1 mmHg@ 20°C. Estimated based on ingredient data. No data available No data available.
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No data available.

#### **10. STABILITY AND REACTIVITY**

**INCOMPATIBILITIES:** Strong acids, bases, amines and mercaptans can cause polymerization. External heating or self-heating could result in rapid temperature increase and pressure build up. If such a condition were to occur in a drum, the drum could expand and rupture violently.

CONDITIONS TO AVOID: ..... Avoid excessive heat.

# 11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

Component Name	CAS#	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation
Titanium dioxide (in solution, non-hazardous)	13463-67-7	>5000 mg/kg	No data	>6.82 gm/l 4h; rat
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,	25085-99-8	>15,000 mg/kg	>23,000 mg/kg	No data
polymers		(rat)	(rabbit)	
Cresyl glycidyl ether	2210-79-9	4000-5800 mg/kg	No data	6090 mg/m3 4h (rat);
		(rat)		1220 ppm 4h (rat)
CUTE TOXICITY: ased on acute toxicity estimation methods using ing Oral:	redient data.			
Dermal:				
Inhalation:				
eated, vapors generated can cause headache, nau				
KIN CORROSION / IRRITATION:			• •	
ERIOUS EYE DAMAGE / IRRITATION:	Ca	uses serious eye irritation	n. Category 2A.	
RESPIRATORY SENSITIZATION: Repeated exposure to high vapor concentrations ma leveloping allergy symptoms to this product.				
KIN SENSITIZATION:	Ma	y cause allergic skin read	ction. Category 1.	
EPRODUCTIVE TOXICITY: hown not to interfere with reproduction. Diglycidyl e regnant rabbits were exposed by skin contact, the r	ther bisphenol-A did r	ot cause birth defects or	other adverse effect	ts on the fetus when
IUTAGENICITY	Sus	spected of causing genet	ic defects - Categor	y 2.
Cresyl glycidyl ether has shown mutagenic effects in nutagen in strains TA 1535 and TA 100, but was no roduced significant increases in unscheduled DNA eduction in unscheduled DNA synthesis due to its c bund not to be genotoxic.	t mutagenic in TA 98. synthesis at 10 and 1	In an unscheduled DNA 00 ppm. At 1000 ppm, o-	synthesis assay, o-c cresyl glycidyl ether	resyl glycidyl ether produced a marked
Diglycidyl ether bisphenol-A in animal mutagenicity thers.	studies were negative	. In vitro mutagenicity te	sts were negative in	some cases and positive i
ARCINOGENICITY	Not	classified. Does not me	et criteria for carcino	genicity.
any studies have been conducted to assess the po	tential carcinogenicity	of diglycidyl ether of bis	phenol-A. Although	some weak evidence of

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 Diglycidyl ether bisphenol-A is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that Diglycidyl ether bisphenol-A is not classified as a carcinogen.

This product contains Titanium Dioxide, which is listed by IARC as a Group 2B - possibly carcinogenic to humans. No significant inhalation exposure is expected to occur during use of products in which Titanium Dioxide is present in a liquid dispersion or bound to other materials, such as in epoxies. Risk of overexposure depends on actual concentration in the formula and duration and level of exposure to dust from sanding or similar machining operations. Studies that have shown tumor developments in rats have shown little or no relevance to tumor development in humans. OSHA or NTP do not classify titanium dioxide as a potential carcinogen.

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have been shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes in contact with the lung. However, tests with other laboratory animals, such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiology studies do not suggest an increased risk of cancer in humans from occupational inhalation exposure to pigmentary titanium dioxide.

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):........... Not classified. Does not meet STOT SE criteria.

SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure): ...... Not classified. Does not meet STOT RE criteria.

OTHER HEALTH HAZARD INFORMATION: ...... None known.

# 12. ECOLOGICAL INFORMATION

Estimate: Does not meet acute aquatic toxicity requirements.

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Estimate: Aquatic Chronic Category 2.

PERSISTANCE AND BIODEGRADABILITY: ...... No specific test data available for the mixture.

ADDITIONAL ECOTOXICITY INFORMATION: ...... In the liquid, uncured state, this product may be harmful to aquatic life long lasting effects. Prevent release to the environment, sewers and natural waters.

Ingredient	CAS#	Ecotoxicity Classification Information
Titanium dioxide (in solution, non-hazardous)	13463-67-7	Not classified.
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	Aquatic Chronic Cat. 2
Cresyl glycidyl ether	2210-79-9	Aquatic Chronic Cat. 2

# 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

US DOT	
UN NUMBER:	Not regulated.
SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	

# CANADA TDG

UN NUMBER:	Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	

# ICAO/IATA

UN NUMBER:	UN 3082.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	Epoxy Resin.
HAZARD CLASS:	
PACKING GROUP:	
MARINE POLLUTANT:	Yes

#### IMDG

UN NUMBER:	UN 3082.
SHIPPING NAME:	Environmentally hazardous substance. liquid. n.o.s.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	PG III.
EmS Number:	-
MARINE POLLUTANT	

# 15. REGULATORY INFORMATION

COUNTRY	INVENTORY LIST	STATUS	
United States	TSCA	All ingredients are listed or otherwise compliant.	
Europe	EINECS or ELINCS	All ingredients are listed or otherwise compliant.	
Canada	CEPA (DSL/NDSL)	All ingredients are listed or otherwise compliant.	
Australia	AICS	All ingredients are listed or otherwise compliant.	
Japan	ENCS	No data	
South Korea	KECI	No data	
China	IECSC	No data	
Philippines	PICCS	No data	
New Zealand	NZIoC	No data	

US EPA TSCA Requirements: ...... No data available.

Canada WHMIS Confidential Business Information (CBI):..... No data available.

US EPA SARA TITLE III Reporting and Notification Requirements:

Subject to Section 302 (TPQ)	No data available.
Subject to Section 304 (RQ).	No data available.
Subject to Section 311 or 312	Refer to the health and physical classifications in section 2.
Subject to Section 313	No data available.

# STATE REGULATORY INFORMATION:

Chemicals listed below may be specifically regulated by individual states. For details on state regulatory requirements you should contact the appropriate state agency.

COMPONENT NAME /CAS NUMBER	STATE CODE
Titanium dioxide 13463-67-7	<sup>1,2</sup> CA, NJ, PA

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

<sup>2</sup> Titanium dioxide (airborne, unbound particles of respirable size) is a substance listed under California Proposition 65. As present in this product,

titanium dioxide does not meet that listing criteria, as it is both bound in a liquid dispersion and therefore not respirable.

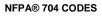
# 16. OTHER INFORMATION

REASON FOR ISSUE:	Approval date change.
PREPARED BY:	
SDS CONTACT:	safety@gougeon.com
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	January 3, 2022
SUPERSEDES DATE:	January 15, 2019
SDS VERSION:	501-2022a

# OTHER HAZARD INFORMATION AND RATING SYSTEMS:

# HMIS® RATING

HEALTH:	2
FLAMMABILITY:	1
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	





Approximate HMIS and NFPA Risk Ratings Legend:

0 = Low or None; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

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