SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM[®] 502 Black Pigment

APPLICABLE PRODUCT CODES:502, 502-8

CHEMICAL FAMILY:Pigmented epoxy resin mixture.

INTENDED PRODUCT USES: Pigment for epoxy resins.

PRODUCT RESTRICTIONS: None identified. SDS VERSION: 502-2022a

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

EMERGENCY TELEPHONE NUMBERS (24 HRS):

Transportation

CHEMTREC:..... 800-424-9300 (U.S.)

703-527-3887 (International)

Non-transportation

Poison Hotline: 800-222-1222

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.

P273 Avoid release to the environment.

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

Response

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

Disposa

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

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

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INGREDIENT NAME	CAS#	CONCENTRATION (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	60
Carbon black	1333-86-4	10-30
Cresyl glycidyl ether	2210-79-9	18

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.

4. FIRST AID MEASURES
FIRST AID FOR EYES
FIRST AID FOR SKIN
FIRST AID FOR INHALATIONSYMPTOMS: Not a likely route of exposure under normal conditions of us RESPONSE: Remove to fresh air if respiratory irritation occurs and keep comfortable for breathing.
FIRST AID FOR INGESTION
5. FIRE FIGHTING MEASURES
EXTINGUISHING MEDIA:
FIRE AND EXPLOSION HAZARDS:
SPECIAL FIRE FIGHTING PROCEDURES:
6. ACCIDENTAL RELEASE MEASURES
EMERGENCY PROCEDURES: Keep unnecessary and unprotected personnel from entering area. Use appropriate safety and personal protective equipment as indicated in Section 8.
MITIGATION AND CLEAN UP PROCEDURES:
ENVIRONMENTAL PRECAUTIONS: ————————————————————————————————————
7. HANDLING AND STORAGE
STORAGE TEMPERATURE (min./max.):
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:
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
ENGINEERING CONTROLS:
EYE PROTECTION GUIDELINES: Safety glasses with side shields or chemical splash goggles.
SKIN PROTECTION GUIDELINES:

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This product contains Carbon Black, 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 Carbon Black 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 Carbon Black, consider the use of appropriate respiratory protection, such as a N95 particulate filter or greater.

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. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

OCCUPATIONAL EXPOSURE LIMITS: Exposure limits may not be established for this product as a whole. For established exposure limits of specific ingredients in this product, or other available exposure limit information, refer to the table below.

Ingredient Name	CAS#	Exposure Limit Information
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	No data available.
Carbon Black	1333-86-4	ACGIH TLV 3 mg/m ³ TWA, Inhalable; OSHA PEL
		3.5 mg/m³, TWA
Cresyl glycidyl ether	2210-79-9	No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Semi-liquid, paste.
COLOR:	Black.
ODOR:	Mild.
ODOR THRESHOLD:	No data available
pH	No data available
MELTING POINT / FREEZING POINT	No data available
BOILING POINT (760mm/Hg):	> 400°F (204°C) Estimated based on ingredient data.
FLASH POINT:	>200°F (93°C) Based on ASTM D92 test results from similar product.
AUTO IGNITION TEMPERATURE	No data available
LOWER EXPLOSIVE LIMIT (LEL)	No data available
UPPER EXPLOSIVE LIMIT (UEL)	No data available
VAPOR PRESSURE	No data available
SPECIFIC GRAVITY/DENSITY (water = 1)	1.2
BULK DENSITY	
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data available
WATER SOLUBILITY (% BY WT.)	No data available
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	
	ASTM D 2369-07 was used to determine the Volatile Content of mixed
epoxy resin and hardener.	

No data available.

10. STABILITY AND REACTIVITY

STABILITY:	Product is stable at normal temperatures and pressures.
	Product will not react by itself. A mass of more than one pound of product gnificant heat buildup. Strong acids, bases, amines and mercaptans can cause
	Strong acids, bases, amines and mercaptans can cause polymerization. crease and pressure build up. If such a condition were to occur in a drum, the
CONDITIONS TO AVOID:	Avoid excessive heat.
DECOMPOSITION PRODUCTS:uncontrolled exothermic reactions or when otherwise heated to decompositions of the controlled exothermic reactions or when otherwise heated to decompositions or when other heated to decompositions or decompositions or when other heated to decompositions or when other heated to decompositions or	Carbon monoxide, carbon dioxide and phenolics may be produced during omposition.

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

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ACLITE TOYICITY

Component Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
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)	
Carbon black	1333-86-4	> 8000 mg/kg	No data	No data
Cresyl glycidyl ether	2210-79-9	4000-5800 mg/kg	No data	6090 mg/m3 4h (rat);
		(rat)		1220 ppm 4h (rat)

No enacific toxicity data exists for this mixture. Classification is

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

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 Carbon Black, 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 Carbon Black 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. Refer to Section 8 respiratory protection information and Section 11 for toxicology information.

Study: Species: Rat, Route: Inhalation, Duration: 2 years, Target Organ: Lungs, Effect: Inflammation, fibrosis, tumors. Note: Tumors in the rat lung are considered to be related to "lung overload" rather than to a specific chemical effect of the carbon black itself in the lung. These effects in rats have been reported in many studies in other poorly soluble inorganic particles and appear to be rat specific (ILSI, 2000). Tumors have not been observed in other species (Ex. mouse, hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions.

In 2006, IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in animal studies for the carcinogenicity of carbon black. IARC's overall assessment is that carbon black is "possibly carcinogenic to humans (Group 2B)". This conclusion was based on IARC's guideline's, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

ACHIG classifies Carbon Black as a confirmed animal carcinogen with unknown relevance to humans (Category A3).

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

NOAEC = 1.1 mg/m3 (respirable). Target organ effects at higher doses are lung inflammation, hyperplasia, and fibrosis.

12. ECOLOGICAL INFORMATION

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ACUTE AQUATIC TOXICITY:Estimate: Does not meet acute aquatic toxicity requirements.	. No specific test data available for the mixture. Calculated
CHRONIC AQUATIC TOXICITY: Estimate: Aquatic Chronic Category 2.	. No specific test data available for the mixture. Calculated
PERSISTANCE AND BIODEGRADABILITY:	. No specific test data available for the mixture.
MOBILITY IN SOIL:	. No specific test data available for the mixture.
ADDITIONAL ECOTOXICITY INFORMATION:	

Ingredient	CAS#	Ecotoxicity Classification
		Information
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	Aquatic Chronic Cat. 2
Carbon black	1333-86-4	Not classified.
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: Not applicable.
TECHNICAL SHIPPING NAME: Not applicable.
HAZARD CLASS: Not applicable.
PACKING GROUP: Not applicable.

ICAO/IATA

UN NUMBER: UN 3082.

SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s.

TECHNICAL SHIPPING NAME: Epoxy Resin.

HAZARD CLASS: Class 9.

HAZARD CLASS: Class 9.
PACKING GROUP: PG III.
MARINE POLLUTANT: Yes

IMDG

UN NUMBER: UN 3082.
SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME: Epoxy Resin.

 HAZARD CLASS:
 Class 9.

 PACKING GROUP:
 PG III.

 EmS Number:
 F-A, S-F

 MARINE POLLUTANT
 Yes

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

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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 Carbon black

1333-86-4

STATE CODE

1, 2CA, NJ, MA, PA

- 1. These substances are known to the state of California to cause cancer or reproductive harm, or both.
- ^{2.} Carbon black, (airborne, unbound particles of respirable size) is a substance listed under California Proposition 65. As present in this product, carbon black 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:	Update to Section 11.
PREPARED BY:	
SDS CONTACT:	safety@gougeon.com
TITLE:	Health. Safety & Environmental Manager
APPROVAL DATE:	January 3, 2022
SUPERSEDES DATE:	
SDS VERSION:	

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

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

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend: 0 = Low or None; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

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