SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM[®] G/flex[®] 655 Part-A Resin

APPLICABLE PRODUCT CODES: 655A, 655-CR, 655-ER
CHEMICAL FAMILY: Epoxy resin mixture.
INTENDED PRODUCT USES: Epoxy resin adhesive.
PRODUCT RESTRICTIONS: None identified.

SDS VERSION: None identifications: None identifications None identification None i

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

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 2A 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

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention

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.

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.

<u>Disposal</u>

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

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	60-100
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	10-30

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Synthetic Amorphous, Pyrogenic Silica	112945-52-5	1-5
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The exact chemical identity and/or exact percentage (concentration) of each ingredient has been held as confidential business information (CBI). Refer to Section 15 for additional information regarding this CBI claim.

FIRST AID MEASURES 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. SPECIAL FIRE FIGHTING PROCEDURES: Wear a self-contained breathing apparatus and complete full-body personal protective equipment. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. ACCIDENTAL RELEASE MEASURES PERSONAL PRECAUTIONS AND PROTECTIVE EQUIPMENT: 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: Stop leak without additional risk. Isolate area. Dike and absorb with inert 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. ENVIRONMENTAL PRECAUTIONS: Prevent from entering into soil, ditches, sewers, waterways and groundwater. See Section 12 for environmental impact information. HANDLING AND STORAGE 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. contaminated clothing before reuse. 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** EYE PROTECTION GUIDELINES: Safety glasses with side shields or chemical splash goggles. butyl rubber or natural rubber) and full body-covering clothing. exposures below established limits. When ventilation cannot be made adequate enough to keep exposures below established limits, use a NIOSH approved respirator with an organic vapor cartridge, or organic vapor cartridge + P100 particulate filter, depending on specific workplace conditions. Consult with your respirator and cartridge supplier to ensure proper selection of respirator and cartridge based on ingredients listed in Section 3 and specific workplace conditions. Use and select a respirator according the guidelines established in OSHA 1910.134 or other applicable respiratory protection standard. 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

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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.
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	No data available.
Synthetic Amorphous, Pyrogenic Silica	112945-52-5	Amorphous silica: OSHA PEL 6 mg/m ³
		Dust and PNOS: ACGIH 10mg/m³, TWA, Inhalable; 3 mg/m³, TWA, Respirable; OSHA PEL 15 mg/m³, TWA, total dust; 5 mg/m³, TWA, Respirable

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Gel-paste.
COLOR:	Cloudy, off-white.
ODOR:	Mild.
ODOR THRESHOLD:	No data available
pH	No data available
MELTING POINT / FREEZING POINT	
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	
LOWER EXPLOSIVE LIMIT (LEL)	
UPPER EXPLOSIVE LIMIT (UEL)	
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	1.18
BULK DENSITY	9.9 lbs./gal. (1.18 kg/L)
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
KINEMATIC VISCOSITY:	· · · · · · · · · · · · · · · · · · ·
DECOMPOSITION TEMPERATURE:	
	ASTM D 2369-07 was used to determine the Volatile Content of mixed
epoxy resin and hardener. Refer to the hardener SDS for information	n about the total volatile content of the resin/hardener system.

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 nificant heat buildup. Strong acids, bases, amines and mercaptans can cause
	Strong acids, bases, amines and mercaptans can cause polymerization. ease and pressure build up. If such a condition were to occur in a drum, the
CONDITIONS TO AVOID:	Avoid excessive heat.

DECOMPOSITION PRODUCTS:Carbon monoxide, carbon dioxide and phenolics may be produced during uncontrolled exothermic reactions or when otherwise heated to decomposition.

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

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)	
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	>2000 mg/kg	2000 mg/kg	No data
Synthetic Amorphous, Pyrogenic Silica	112945-52-5	>5000 mg/kg	>2000 mg/kg	No data

ACUTE TOXICITY:	. No specific toxicity data exists for this mixture. Classification is
based on acute toxicity estimation methods using ingredient data.	
Oral:	. Not classified. Does not meet acute oral toxicity criteria.
Dermal:	. Not classified. Does not meet acute dermal toxicity criteria.
Inhalation:	. Not classified. Does not meet acute inhalation toxicity criteria. If product is
heated, vapors generated can cause headache, nausea, dizziness an	d possible respiratory irritation if inhaled in high concentrations.

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Not classified. Does not me	eet criteria for carcinogenicity.
gative. In vitro mutagenicity to	ests were negative in some cases and pos
Not classified. Does not me	eet criteria for germ cell mutagenicity.
did not cause birth defects o	her bisphenol-A, in animal studies, has be r other adverse effects on the fetus when nt rats or rabbits were exposed orally.
May cause allergic skin rea	action. Category 1.
Not classified. Does not me n of pre-existing lung allergies	
•	
Causes skin irritation – Cate Causes serious eve irritatio	on, Category 2A.
	n Cotogon, 2A
	May cause allergic skin rea Not classified. Diglycidyl eti t did not cause birth defects o of exposure, or when pregna Not classified. Does not me gative. In vitro mutagenicity to

US DOT
UN NUMBER: Not regulated.

14. TRANSPORTATION INFORMATION

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SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP:	
ICAO/IATA UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP: MARINE POLLUTANT:	Environmentally hazardous substance, solid, n.o.s. Epoxy Resin. Class 9. PG III.
IMDG UN NUMBER:	Environmentally hazardous substance, solid, n.o.s Epoxy Resin Class 9 PG III.

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	All ingredients are listed or otherwise compliant.
South Korea	KECI	All ingredients are listed or otherwise compliant.
China	IECSC	All ingredients are listed or otherwise compliant.
Philippines	PICCS	All ingredients are listed or otherwise compliant.
New Zealand	NZIoC	All ingredients are listed or otherwise compliant.

US EPA SARA TITLE III Reporting and Notification Requirements:

MARINE POLLUTANTYes

Subject to Section 302 (TPQ)	No data available.
Subject to Section 304 (RQ)	No data available.
Subject to Section 311 or 312	Immediate.
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

Epichlorohydrin 106-89-8

< 15ppm

STATE CODE

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:

and CANADA WHMIS 2015 regulations.

PREPARED BY:

APPROVED BY:

SDS CONTACT:

TITLE:

Health, Safety & Environmental Manager

APPROVAL DATE:

SUPERSEDES DATE:

August 17, 2016

SDS VERSION:

Compliant to the requirements of the US OSHA 1910.1200 HazCom 2012

G. M. House

Sd. M. House

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TITLE:

Health, Safety & Environmental Manager

August 17, 2016

August 17, 2016

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A House

APPROVAL 1910.1200 HazCom 2012

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Safety @gougeon.com

TITLE:

Health, Safety & Environmental Manager

August 17, 2016

SDS VERSION:

SDS VERSION:

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING NFPA® 704 CODES

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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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