SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM® 407 Low-Density Filler

APPLICABLE PRODUCT CODES:407, 407-5, 407-15 and 407-B

CHEMICAL FAMILY: Synthetic polymer-natural mineral blend.

INTENDED PRODUCT USES: Thickening agent for liquid epoxy resins.

PRODUCT RESTRICTIONS: None identified. SDS VERSION: 407-2016a

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

Eye damage/irritation, Category 2B Combustible dust

Label Elements

Hazard Pictogram(s):

None

Signal Word:

WARNING

Hazard Statements:

H320 Causes eye irritation

May form combustible dust concentrations in the air

Precautionary Statements:

Prevention

P264 Wash hands thoroughly after handling.

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

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

Keep away from all ignition sources including heat, sparks and open flame.

Prevent dust accumulations to minimize explosion hazard.

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Phenol-formaldehyde polymer microballoon	9003-35-4	40-70
Sodium potassium aluminum silicate	93763-70-3	20-40
Synthetic amorphous pyrogenic silica	112945-52-5	5-15

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.

4. FIRST AID MEASURES

FIRST AID FOR EYESRESPONSE: Flush with water for at least 15 minutes. Remove conta measure if symptoms develop and persist.	SYMPTOMS: Excessive exposure may cause irritation and tearing. ct lenses if present and easy to do. Consult a physician as precautionary
FIRST AID FOR SKIN	SYMPTOMS: May cause skin dryness or slight irritation. RESPONSE:

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	FIRST AID FOR INHALATION irritation or shortness of breath due to temporary lung overload. RESF breathing. Seek medical advice is symptoms persist.		
	FIRST AID FOR INGESTIONingested under normal conditions of use. RESPONSE: Seek medical	. SYMPTOMS: No acute a attention if a significant a	adverse health effects expected from amounts mount is ingested.
5.	FIRE FIGHTING MEASURES		
	EXTINGUISHING MEDIA: mist is recommended if water is used. NON-SUITABLE: Avoid using h	. SUITABLE: Foam, carbo nigh pressure media.	on dioxide (CO ₂), water, or dry chemical. Fog or
	FIRE AND EXPLOSION HAZARDS:additional information. Combustion may result in the release of carbon		
	SPECIAL FIRE FIGHTING PROCEDURES: protective equipment. Dust may form an explosive mixture in the air,		
6.	ACCIDENTAL RELEASE MEASURES		
	PERSONAL PRECAUTIONS AND PROTECTIVE EQUIPMENT: appropriate safety and personal protective equipment as indicated in		unprotected personnel from entering area. Use
	MITIGATION AND CLEAN UP PROCEDURES: dust. Use a vacuum with high efficiency particulate air (HEPA) filtratio using compressed air.		
	ENVIRONMENTAL PRECAUTIONS:	. Contain spilled product t	o the extent practical and feasible.
7.	HANDLING AND STORAGE		
	STORAGE TEMPERATURE (min./max.):	. 0°F (-17°C) / 95°F (35°C	;)
	STORAGE: exceeding 95°F (35°C). Product may undergo spontaneous smolderir ingress. Store in sealed containers to prevent moisture absorption or heat.	ig if stored or heated in bι	ılk above 35°C under conditions allowing air
	HANDLING PRECAUTIONS: appropriate exhaust ventilation at points of operation where dust can with air. Take precautionary measures against static discharges. Meta Dust deposits should not be allowed to accumulate on surfaces.	be generated. Avoid using	compressed air. Dust may form explosive mixture
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION		
	EYE PROTECTION GUIDELINES:	. Safety glasses with side	shields, or goggles if necessary.
	SKIN PROTECTION GUIDELINES:	. Gloves or a barrier crear	m may be useful to help prevent skin from drying.
	RESPIRATORY/VENTILATION GUIDELINES:		
	ADDITIONAL PROTECTIVE MEASURES: contact. Wash thoroughly after handling. Generally speaking, working exposure to this product under normal use conditions.		
	OCCUPATIONAL EXPOSURE LIMITS:established exposure limits of specific ingredients in this product, or o		
	Ingredient Name	CAS#	Exposure Limit Information
	Phenol-formaldehyde polymer microballoon	9003-35-4	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
	Sodium potassium aluminum silicate	93763-70-3	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.
	Synthetic amorphous pyrogenic silica	112945-52-5	Amorphous silica: OSHA PEL 6 mg/m ³

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	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
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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Powder, solid.
COLOR:	Reddish-brown.
ODOR:	Slight.
ODOR THRESHOLD:	No data available
pH	
MELTING POINT / FREEZING POINT	No data available
BOILING POINT (760mm/Hg):	No data available
FLASH POINT:	No data available
AUTO IGNITION TEMPERATURE	
LOWER EXPLOSIVE LIMIT (LEL)	No data available
UPPER EXPLOSIVE LIMIT (UEL)	No data available
VAPOR PRESSURE	No data available
SPECIFIC GRAVITY/DENSITY (water = 1)	No data available
BULK DENSITY	
VAPOR DENSITY (air = 1)	No data available
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data available
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
KINEMATIC VISCOSITY:	No data available (mm²/s @ 20°C)
DECOMPOSITION TEMPERATURE:	No data available.
% VOLATILE BY WEIGHT:	
	Dust may form explosive mixtures in air. Explosive properties of this mixture
have not been measured. One or more of the components of this mix	ture have been identified as having the potential to form an explosive mixture
with air when suspended as a dust cloud.	
Kst VALUE:	
MAXIMUM EXPLOSION PRESSURE (Pmax)	
MINIMUM IGNITION ENERGY (MIE):	
MAXIMUM EXPLOSION CONCENTRATION (MEC):	
DUST EXPLOSION CLASSIFICATION:	No data available

10. STABILITY AND REACTIVITY

STABILITY: Product is stable at normal temperatures and pressures.

REACTIVITY/HAZARDOUS REACTIONS: Product will not react by itself.

INCOMPATIBILITIES: Strong oxidizing agents and acids. Contact with hydrofluoric acid will cause the release of a toxic gas.

CONDITIONS TO AVOID: Avoid settling dust collection and airborne dust formation. Avoid direct heat or excessive sunlight.

DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and possibly formaldehyde and phenol derivatives at higher temperatures.

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

Component Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Phenol-formaldehyde polymer microballoon	9003-35-4	No data	No data	No data
Sodium potassium aluminum silicate	93763-70-3	No data	No data	No data
Synthetic amorphous pyrogenic silica	112945-52-5	>5000 mg/kg	>2000 mg/kg	No data

ACUTE TOXICITY:based on acute toxicity estimation methods using ingredient data.	. No specific toxicity data exists for this mixture. Classification is
Oral:	Not classified. Does not meet acute oral toxicity criteria. Not classified. Does not meet acute dermal toxicity criteria. Not classified. Does not meet acute inhalation toxicity criteria.
SKIN CORROSION / IRRITATION:	. Not classified. Does not meet criteria for skin corrosion/irritation.
SERIOUS EYE DAMAGE / IRRITATION:damage/irritation. High dust concentrations may cause mechanical irr	
RESPIRATORY SENSITIZATION:	. Not classified. Does not meet criteria for respiratory sensitizer.

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SKIN SENSITIZATION: Not classified. Does not meet criteria for skin sensitization.

REPRODUCTIVE TOXICITY: Not classified. Does not meet criteria for reproductive toxicity.

MUTAGENICITY: Not classified. Does not meet criteria for mutagenicity.

CARCINOGENICITY: Not classified. Does not meet criteria for carcinogenicity.

Synthetic amorphous silica: No evidence of carcinogenicity was observed in multiple animal species following repeated oral or inhalation exposure to synthetic amorphous silica. Similarly, epidemiology studies show no evidence of carcinogenicity in workers who manufacture synthetic amorphous silica.

Trace residual formaldehyde may be present in this product at <0.1%. Formaldehyde is classified by IARC as a Group 1 – carcinogenic to humans, by NTP – Known to be a human carcinogen, and by OSHA – as a specifically regulated carcinogen in 29CFR 1910.1048. This product is not classified as a carcinogen because the concentration of formaldehyde does not exceed the cutoff threshold for classification. Exposure potential is expected to be minimal under normal conditions of use due to the physical characteristics of the product.

Trace amounts of crystalline silica (quartz) may be present in this product at <0.1%. Crystalline silica is classified by IARC as a Group 1 – carcinogenic to humans, by NTP – Known to be a human carcinogen. This product is not classified as a carcinogen because the concentration of crystalline silica does not exceed the cutoff threshold for classification. Exposure potential is expected to be minimal under normal conditions of use due to the physical characteristics of the product.

STOT (Single Exposure): Not classified. Does not meet STOT SE criteria.

OTHER HEALTH HAZARD INFORMATION: None known.

12. ECOLOGICAL INFORMATION

Ingredient	CAS#	Ecotoxicity Classification
		Information
Phenol-formaldehyde polymer microballoon	9003-35-4	No data available.
Sodium potassium aluminum silicate	93763-70-3	No data available.
Synthetic amorphous pyrogenic silica	112945-52-5	No data available.

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.

Reclaim or reuse 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:	
TECHNICAL SHIPPING NAME:	. Not applicable.
HAZARD CLASS:	
PACKING GROUP:	
CANADA TDG	
UN NUMBER:	. Not regulated.
SHIPPING NAME:	. Not applicable.
TECHNICAL SHIPPING NAME:	. Not applicable.

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HAZARD CLASS:	
PACKING GROUP:	Not applicable.
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ICAO/IATA	
UN NUMBER:	Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.
MARINE POLLUTANT:	Not applicable.
IMDG	
UN NUMBER:	Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.
EmS Number:	
MARINE POLLUTANT	NI-4 I' I-I-

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:

Subject to Section 302 (TPQ)	Not regulated.
Subject to Section 304 (RQ)	Not regulated.
Subject to Section 311 or 312	Fire.
Subject to Section 313	Not regulated.

Canada WHMIS Confidential Business Information (CBI):...... The HMIRA number issued for this CBI claim is #10272. The date of filing is 2016-08-08.

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
Amorphous silica		
7631-86-9 or 112945-52-5		PA, NJ, MA,
Crystalline silica		
14808-60-7	<0.032%	PA, NJ, MA, ¹ CA
Formaldehyde		
50-00-0	<0.1%	PA, NJ, MA, ¹ CA

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

16. OTHER INFORMATION

REASON FOR ISSUE:	. Update to Sections 3 and 15 to WHMIS 2015 requirements
PREPARED BY:	
APPROVED BY:	. G. M. House
SDS CONTACT:	. safety@gougeon.com
TITLE:	. Health, Safety & Environmental Manager
APPROVAL DATE:	. August 16, 2016
SUPERSEDES DATE:	. June 1, 2015
SDS VERSION:	. 407-2016a
SDS CONTACT: TITLE: APPROVAL DATE: SUPERSEDES DATE:	. safety@gougeon.com . Health, Safety & Environmental Manager . August 16, 2016 . June 1, 2015

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

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HMIS® RATING

HEALTH:	0
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
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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