# 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: 407-2019a

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

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

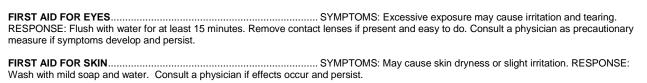
None known.

# 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Phenol-formaldehyde polymer microballoon	9003-35-4	45-70
Sodium potassium aluminum silicate	93763-70-3	15-40
Synthetic amorphous pyrogenic silica	112945-52-5	10-30

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



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	FIRST AID FOR INHALATIONriritation or shortness of breath due to temporary lung overload. RESPondathing. 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 his		on dioxide (CO <sub>2</sub> ), water, or dry chemical. Fog or
	FIRE AND EXPLOSION HAZARDS:additional information. Combustion may result in the release of carbon		
	SPECIAL FIRE FIGHTING PROCEDURES:		
6.	ACCIDENTAL RELEASE MEASURES		
	EMERGENCY PROCEDURES: appropriate safety and personal protective equipment as indicated in S		unprotected personnel from entering area. Use
	MITIGATION AND CLEAN UP PROCEDURES: dust. Use a vacuum with high efficiency particulate air (HEPA) filtration 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	c)
	STORAGE:  exceeding 95°F (35°C). Product may undergo spontaneous smoldering ingress. Store in sealed containers to prevent moisture absorption or a heat.	g if stored or heated in bu	ulk above 35°C under conditions allowing air
	HANDLING PRECAUTIONS:  appropriate exhaust ventilation at points of operation where dust can b with air. Take precautionary measures against static discharges. Metal Dust deposits should not be allowed to accumulate on surfaces.	e generated. Avoid using	compressed air. Dust may form explosive mixture
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION		
	ENGINEERING CONTROLS: exposures below established limits.	. Use with adequate gen	eral ventilation and/or local ventilation to keep
	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 PROTECTION GUIDELINES:	llate filter, such as a N95 e proper selection of resp	or greater, depending on specific workplace birator and cartridge based on ingredients listed in
	ADDITIONAL PROTECTIVE MEASURES:contact. Wash thoroughly after handling. Generally speaking, working exposure to this product under normal use conditions.	Practice good caution ar cleanly and following bas	nd personal cleanliness to avoid skin and eye sic precautionary measures will greatly minimize the
	OCCUPATIONAL EXPOSURE LIMITS:established exposure limits of specific ingredients in this product, or other		
	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,

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		Respirable.
Synthetic amorphous pyrogenic silica	112945-52-5	Amorphous silica: OSHA PEL 6 mg/m <sup>3</sup>
		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:	. Powder, solid.
COLOR:	. Reddish-brown.
ODOR:	. Slight.
ODOR THRESHOLD:	. No data available
pH	. No data available
MELTING POINT / FREEZING POINT	
BOILING POINT (760mm/Hg):	. No data available
FLASH POINT:	
AUTO IGNITION TEMPERATURE	. No data available
LOWER EXPLOSIVE LIMIT (LEL)	
UPPER EXPLOSIVE LIMIT (UEL)	. No data available
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	. No data available
BULK DENSITY	
VAPOR DENSITY (air = 1)	. No data available
EVAPORATIOIN RATE (Butyl Acetate = 1)	
WATER SOLUBILITY (% BY WT.)	. Largely insoluble.
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	
% VOLATILE BY WEIGHT:	
	. Dust may form explosive mixtures in air. Explosive properties of this mixture
	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: the release of a toxic gas.	Strong oxidizing agents and acids. Contact with hydrofluoric acid will cause
CONDITIONS TO AVOID:	Avoid settling dust collection and airborne dust formation. Avoid direct heat
<b>DECOMPOSITION PRODUCTS:</b> derivatives at higher temperatures.	. Carbon monoxide, carbon dioxide and possibly formaldehyde and phenol

# 11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

damage/irritation. High dust concentrations may cause mechanical irritation.

Component Name	CAS#	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> 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:

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.

SKIN CORROSION / IRRITATION:

Not classified. Does not meet criteria for skin corrosion/irritation.

SERIOUS EYE DAMAGE / IRRITATION:

Not classified. Does not meet criteria for skin eye

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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

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.

mg/m3 based on reversible effects in the lungs and effects in the nasal cavity.

#### 12. ECOLOGICAL INFORMATION

...... No specific test data available for the mixture. Calculated ACUTE AQUATIC TOXICITY:.... Estimate: Does not meet acute aquatic toxicity criteria. Estimate: Does not meet chronic aquatic toxicity criteria. 

CAS#	Ecotoxicity Classification
	Information
9003-35-4	No data available.
93763-70-3	No data available.
112945-52-5	No data available.
	9003-35-4 93763-70-3

# 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 applicableNot applicableNot applicableNot applicable.
CANADA TDG	

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SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.
	• • •
ICAO/IATA	
UN NUMBER:	Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Not applicable.
PACKING GROUP:	
MARINE POLLUTANT:	Not applicable.
IMDG	
UN NUMBER:	Not regulated.
SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.
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	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:**

# 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**

 VCAS NUMBER
 STATE CODE

 Amorphous silica
 7631-86-9 or 112945-52-5
 PA, NJ, MA,

 Crystalline silica
 PA, NJ, MA, ¹CA

 14808-60-7
 <0.032%</td>
 PA, NJ, MA, ¹CA

 Formaldehyde
 <0.032%</td>
 PA, NJ, MA, ¹CA

 50-00-0
 <0.1%</td>
 PA, NJ, MA, ¹CA

# 16. OTHER INFORMATION

REASON FOR ISSUE:

PREPARED BY:

SOURCE SONTACT:

DIAMOND SONTACT:

SIDE CONTACT:

SOURCE SONTACT:

SOURCE S

# OTHER HAZARD INFORMATION AND RATING SYSTEMS:

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

## **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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