SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	WEST SYSTEM [®] 407 Low-Density Filler
APPLICABLE PRODUCT CODES:	
CHEMICAL FAMILY:	Synthetic polymer-natural mineral blend.
INTENDED PRODUCT USES:	Thickening agent for liquid epoxy resins.
PRODUCT RESTRICTIONS:	None identified.
SDS VERSION:	407-2019a

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

Other Hazards

None known.

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

5. FIRE FIGHTING MEASURES

6. ACCIDENTAL RELEASE MEASURES

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION GUIDELINES: When ventilation cannot be made adequate enough to keep exposures below established limits, use a NIOSH approved respirator with particulate filter, such as a N95 or greater, 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. Wash thoroughly after handling. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the exposure to this product under normal use conditions.

Ingredient Name	CAS#	Exposure Limit Information
Phenol-formaldehyde polymer microballoon	9003-35-4	Dust and PNOS: ACGIH 10mg/m ³ , TWA, Inhalable; 3 mg/m ³ , TWA, Respirable; OSHA PEL 15 mg/m ³ , TWA, total dust; 5 mg/m ³ , TWA, Respirable
Sodium potassium aluminum silicate	93763-70-3	Dust and PNOS: ACGIH 10mg/m ³ , TWA, Inhalable; 3 mg/m ³ , TWA, Respirable; OSHA PEL 15 mg/m ³ , TWA, total dust; 5 mg/m ³ , TWA,

		Respirable.
Synthetic amorphous pyrogenic silica	112945-52-5	Amorphous silica: OSHA PEL 6 mg/m ³
		Dust and PNOS: ACGIH 10mg/m ³ , TWA, Inhalable; 3 mg/m ³ , TWA, Respirable; OSHA PEL 15 mg/m ³ , TWA, total dust; 5 mg/m ³ , TWA, Respirable

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	,
COLOR:	
ODOR:	
ODOR THRESHOLD:	No data available
рН	
MELTING POINT / FREEZING POINT	No data available
BOILING POINT (760mm/Hg):	No data available
FLASH POINT:	
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)	No data available
BULK DENSITY	No data available
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)	No data available
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	No data available.
% VOLATILE BY WEIGHT:	Not applicable.
	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:	No data available
MAXIMUM EXPLOSION PRESSURE (Pmax)	No data available
MINIMUM IGNITION ENERGY (MIE):	
MAXIMUM EXPLOSION CONCENTRATION (MEC):	
DUST EXPLOSION CLASSIFICATION:	

10. STABILITY AND REACTIVITY

REACTIVITY/HAZARDOUS REACTIONS:	Pro	duct will not react by it	tself.	
NCOMPATIBILITIES: he release of a toxic gas.	Str	ong oxidizing agents a	nd acids. Contact with	n hydrofluoric acid will o
CONDITIONS TO AVOID: or excessive sunlight.	Av	oid settling dust collecti	ion and airborne dust	formation. Avoid direct
	Ca	rbon monoxide, carbor	n dioxide and possibly	formaldehyde and phe
benvalives at higher temperatures.				
C	FORMATION			
C	FORMATION	LD ₅₀ Oral	LD₅₀ Dermal	LC ₅₀ Inhalation
TOXICOLOGICAL AND HAZARD ENDPOINT IN		LD ₅₀ Oral No data	LD ₅₀ Dermal	LC ₅₀ Inhalation
TOXICOLOGICAL AND HAZARD ENDPOINT IN	CAS#			
Phenol-formaldehyde polymer microballoon	CAS# 9003-35-4	No data	No data	No data

RESPIRATORY SENSITIZATION:...... Not classified. Does not meet criteria for respiratory sensitizer.

SKIN SENSITIZATION:	Not classified. Does not meet criteria for skin sensitization.
	Not classified. Does not meet criteria for reproductive toxicity.
MUTAGENICITY:	Not classified. Does not meet criteria for mutagenicity.
	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

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

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: Prevent release to the environment, sewers and natural waters.

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

Reclaim or reuse may be preferred methods when conducted in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

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

UN NUMBER:	. Not regulated.

SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.

ICAO/IATA

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

IMDG

UN NUMBER:	Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	Not applicable.
MARINE POLLUTANT	
HAZARD CLASS: PACKING GROUP: EmS Number:	Not applicable. Not applicable. Not applicable.

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.	

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

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	
Subject to Section 313	Not regulated.

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 Amorphous silica		STATE CODE
7631-86-9 or 112945-52-5		PA, NJ, MA,
Crystalline silica 14808-60-7 Formaldehyde	<0.032%	PA, NJ, MA, ¹ CA
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. 8. 11 & 15.
PREPARED BY:	
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	January 15, 2019
SUPERSEDES DATE:	
SDS VERSION:	

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

HEALTH:	0
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
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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