SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM® 406 Colloidal Silica APPLICABLE PRODUCT CODES:406, 406-2, 406-7, 406-B.

INTENDED PRODUCT USES: Thickening agent for liquid epoxy resins.

PRODUCT RESTRICTIONS: None identified. **SDS VERSION:**406-2022a

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

HAZARDS IDENTIFICATION

Classification of Substance or Mixture

None

Label Elements

Hazard Pictogram(s):

None

Signal Word:

None

Hazard Statements:

None

Precautionary Statements:

None

Other Hazards

Handling and conveyance of material may create static electrical charge. Earth/ground handling and processing equipment to prevent against static discharge.

COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Synthetic amorphous pyrogenic silica	112945-52-5	80-100

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.

FIRST AID MEASURES

RESPONSE: Flush with water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician as a precautionary measure if symptoms develop and persist.

Wash with mild soap and water. Consult a physician if effects occur and persist.

irritation or shortness of breath due to temporary lung overload. RESPONSE: Remove to fresh air if symptoms develop and keep comfortable for breathing. Seek medical advice is symptoms persist.

ingested under normal conditions of use. RESPONSE: Seek medical attention if a significant amount is ingested.

FIRE FIGHTING MEASURES

mist is recommended if water is used. NON-SUITABLE: Avoid using high pressure media.

concentrations in the air.		
ACCIDENTAL RELEASE MEASURES		
EMERGENCY PROCEDURES: appropriate safety and personal protective equipment as inc	Keep unnecessary adicated in Section 8.	and unprotected personnel from entering area. Use
MITIGATION AND CLEAN UP PROCEDURES: efficiency particulate air (HEPA) filtration is recommended.		
ENVIRONMENTAL PRECAUTIONS:	Contain spilled prod	luct to the extent practical and feasible.
HANDLING AND STORAGE		
STORAGE TEMPERATURE (min./max.):	0°F (-17°C) / 100°F	(38°C)
STORAGE: absorption or absorption of other volatile materials.	Store in cool, dry pla	ace. Store in sealed containers to prevent moisture
HANDLING PRECAUTIONS: appropriate exhaust ventilation at points of operation where against static discharges. Metal parts of mixing and process	dust can be generated. Avoid	using compressed air. Take precautionary measures
EXPOSURE CONTROLS/PERSONAL PROTECTION		
ENGINEERING CONTROLS:		general ventilation and/or local ventilation to keep
EYE PROTECTION GUIDELINES:	Safety glasses with	side shields, or goggles if necessary.
SKIN PROTECTION GUIDELINES:		
RESPIRATORY PROTECTION GUIDELINES:below established limits, use a NIOSH approved respirator conditions. Consult with your respirator and cartridge supplication 3 and specific workplace conditions. Use and select applicable respiratory protection standard.	with particulate filter, such as a er to ensure proper selection of	N95 or greater, depending on specific workplace f respirator and cartridge based on ingredients listed
ADDITIONAL PROTECTIVE MEASURES:contact. Wash thoroughly after handling. Generally speaking exposure to this product under normal use conditions.		
OCCUPATIONAL EXPOSURE LIMITS:established exposure limits of specific ingredients in this pro		
Ingredient Name	CAS#	Exposure Limit Information
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, TW Respirable
PHYSICAL AND CHEMICAL PROPERTIES		
PHYSICAL FORM:	Powder solid	
COLOR:	White.	
ODOR:ODOR THRESHOLD:		
pH		
F	VINT / FREEZING POINT No data available	

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BOILING POINT (760mm/Hg):

BOILING POINT (760mm/Hg):

No data available
FLASH POINT:

No data available
AUTO IGNITION TEMPERATURE

No data available

LOWER EXPLOSIVE LIMIT (LEL).

UPPER EXPLOSIVE LIMIT (UEL)

No data available

VAPOR PRESSURE

No data available

SPECIFIC GRAVITY/DENSITY (water = 1).

BULK DENSITY

No data available

No data available
No data available
Only slightly soluble
No data available
No data (mm²/s @ 20°C)
No data available.
Not applicable.
Not applicable. This product will not support combustion.
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.

CONDITIONS TO AVOID: Avoid excessive airborne dust formation.

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

Component Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Synthetic amorphous pyrogenic silica	112945-52-5	>5000 mg/kg	>2000 mg/kg	No data
		OECD 401	OECD 402	

ACUTE TOXICITY: based on acute toxicity estimation methods using ingredient data.	No specific toxicity data exists for this mixture. Classification is
Oral: Dermal:	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, OECD 405. High dust concentrations may cause in	,
RESPIRATORY SENSITIZATION:	Not classified. Does not meet criteria for respiratory sensitizer.
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.
No evidence of carcinogenicity was observed in multiple animal spe silica. Similarly, epidemiology studies show no evidence of carcinog	cies following repeated oral or inhalation exposure to synthetic amorphous enicity in workers who manufacture synthetic amorphous silica.
STOT (Single Exposure):	Not classified. Does not meet STOT SE criteria.
STOT (Repeated Exposure):	Not classified. Does not meet STOT RE criteria.
Repeated dose toxicity: oral (rat), 13 weeks, LOEL = 1.3 mg/m^3 bas (rat), 90 days, LOEL = 1 mg/m^3 based on reversible effects in the lu	ed on mild reversible effects in the lungs. Repeated dose toxicity: inhalation ings and effects in the nasal cavity.
ASPIRATION HAZARD:	Not classified. Does not meet aspiration toxicity criteria.
OTHER HEALTH HAZARD INFORMATION:	

12. ECOLOGICAL INFORMATION

breath.

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Fish (brachydanio rerio) LC50 96h = >10,000 mg/L (OECD 203). No acute toxicity to daphnia with EL and EL₅₀ ranging from >1000-10,000 mg/L (OECD 202).

MOBILITY IN SOIL: No specific test data available for the mixture.

Ingredient	CAS#	Ecotoxicity Classification Information
Synthetic amorphous pyrogenic silica	112945-52-5	Not classified.

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.

Recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

ı	ıs	n	n	т

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

CANADA TDG

ON NOMBER	Noi regulateu.
SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	
7.014.10 01.001	riot applicable.

ICAO/IATA

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

IMDG

INIDO	
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.

Not so acclete d

US EPA TSCA Requirements: No data available.

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

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US EPA SARA TITLE III Reporting and Notification Requirements:

Subject to Section 302 (TPQ)	Not regulated.
Subject to Section 304 (RQ)	
Subject to Section 311 or 312	Not regulated.
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 7631-86-9 or 112945-52-5 STATE CODE

PA, NJ, MA

16. OTHER INFORMATION

REASON FOR ISSUE:	Approval date change.
PREPARED BY:	
SDS CONTACT:	safety@gougeon.com
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	
SUPERSEDES DATE:	
SDS VERSION:	

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

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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