SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL FAMILY: Synthetic amorphous pyrogenic silica.

INTENDED PRODUCT USES: Thickening agent for liquid epoxy resins.

PRODUCT RESTRICTIONS: None identified. SDS VERSION: 406-2016a

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

703-527-3887 (International)

Non-transportation

Poison Hotline: 800-222-1222

2. 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.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Synthetic amorphous pyrogenic silica	112945-52-5	60-100

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

5. FIRE FIGHTING MEASURES

Last Revised: 16AUG16

concentrations in the air. SPECIAL FIRE FIGHTING PROCEDURES: protective equipment. Dust may form an explosive mixture	Wear a self-containe	
ACCIDENTAL RELEASE MEASURES		
PERSONAL PRECAUTIONS AND PROTECTIVE EQUIP appropriate safety and personal protective equipment as		and unprotected personnel from entering area. Use
MITIGATION AND CLEAN UP PROCEDURES:efficiency particulate air (HEPA) filtration is recommended		
ENVIRONMENTAL PRECAUTIONS:		
HANDLING AND STORAGE		
STORAGE TEMPERATURE (min./max.):	0°F (-17°C) / 100°F	(38°C)
STORAGE: absorption or absorption of other volatile materials.	RAGE:	
HANDLING PRECAUTIONS:appropriate exhaust ventilation at points of operation whe against static discharges. Metal parts of mixing and process.	ere dust can be generated. Avoid ι	using compressed air. Take precautionary measures
EXPOSURE CONTROLS/PERSONAL PROTECTION		
EYE PROTECTION GUIDELINES:	Safety glasses with	side shields, or goggles if necessary.
SKIN PROTECTION GUIDELINES:	Gloves or a barrier of	cream may be useful to help prevent skin from drying.
RESPIRATORY/VENTILATION GUIDELINES:exposures below established limits. When ventilation car NIOSH approved respirator with particulate filter, such as respirator and cartridge supplier to ensure proper selectic workplace conditions. Use and select a respirator according protection standard.	nnot be made adequate enough to a N95 or greater, depending on s on of respirator and cartridge base	keep exposures below established limits, use a specific workplace conditions. Consult with your d on ingredients listed in Section 3 and specific
ADDITIONAL PROTECTIVE MEASURES:contact. Wash thoroughly after handling. Generally speak exposure to this product under normal use conditions.		
OCCUPATIONAL EXPOSURE LIMITS:established exposure limits of specific ingredients in this part of the control of the cont		
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

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	. Powder, solid.
COLOR:	
ODOR:	. None.
ODOR THRESHOLD:	. No data available
pH	. No data available
MELTING POINT / FREEZING POINT	. No data available
BOILING POINT (760mm/Hg):	
FLASH POINT:	. No data available
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)	. 2.2
BULK DENSITY	. No data available
VAPOR DENSITY (air = 1)	. No data available
EVAPORATIOIN RATE (Butyl Acetate = 1)	. No data available
WATER SOLUBILITY (% BY WT.)	Only slightly soluble

Page 2 of 5

PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available
KINEMATIC VISCOSITY:	No data (mm²/s @ 20°C)
DECOMPOSITION TEMPERATURE:	
% VOLATILE BY WEIGHT:	Not applicable.
EXPLOSIVE PROPERTIES:	Not applicable. This product will not support combustion.
Kst VALUE:	No data available
MAXIMUM EXPLOSION PRESSURE (Pmax)	No data available
MINIMUM IGNITION ENERGY (MIE):	No data available
MAXIMUM EXPLOSION CONCENTRATION (MEC):	No data available
DUST EXPLOSION CLASSIFICATION:	No data available

10. STABILITY AND REACTIVITY

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	

	OECD 401 OECD 402
based on acute toxicity estimation methods using ingre	dient data.
Dermal:	
Inhalation:	Not classified. Does not meet acute inhalation toxicity criteria.
SKIN CORROSION / IRRITATION:	
SERIOUS EYE DAMAGE / IRRITATION:damage/irritation, OECD 405. High dust concentrations	
RESPIRATORY SENSITIZATION:	
SKIN SENSITIZATION:	
REPRODUCTIVE TOXICITY:	
MUTAGENICITY:	
CARCINOGENICITY:	
	e animal species following repeated oral or inhalation exposure to synthetic amorphous e of carcinogenicity in workers who manufacture synthetic amorphous silica.
STOT (Single Exposure):	
STOT (Repeated Exposure):	

Repeated dose toxicity: oral (rat), 13 weeks, LOEL = 1.3 mg/m³ based on mild reversible effects in the lungs. Repeated dose toxicity: inhalation (rat), 90 days, LOEL = 1 mg/m3 based on reversible effects in the lungs and effects in the nasal cavity.

ASPIRATION HAZARD: Not classified. Does not meet aspiration toxicity criteria.

irritant, excessive inhalation exposure can irritate the respiratory tract. Temporary lung overload can cause coughing and shortness of breath.

12. ECOLOGICAL INFORMATION

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).

Page 3 of 5 Last Revised: 16AUG16 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
Counth atic amount are name and allies	14204F F2 F	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

03 001	
UN NUMBER: Not regulate	ed.
SHIPPING NAME: Not applical	ble.
TECHNICAL SHIPPING NAME:	ble.
HAZARD CLASS: Not applical	
PACKING GROUP:	

CANADA TDG

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

ICAO/IATA UN NUMBER:

OIT ITOMBEIT.	rvot rogulatou.
SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	Not applicable.
MARINE POLLUTANT:	

IMDG

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

Not regulated

US EPA SARA TITLE III Reporting and Notification Requirements:

Subject to Section 302 (TPQ)	Not regulated.
	Not regulated.
	Not regulated.
Subject to Section 313	Not regulated

Page 4 of 5

Last Revised: 16AUG16

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:	Update to Sections 3 and 15 to Canada WHMIS 2015 requirements.
PREPARED BY:	
APPROVED BY:	G. M. House
SDS CONTACT:	safety@gougeon.com
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	
SUPERSEDES DATE:	June 1, 2015
SDS VERSION:	406-2016a

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

Information in this document is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Gougeon Brothers, Inc. The data on this sheet is related only to the specific material designated herein. Gougeon Brothers, Inc. assumes no legal responsibility for use or reliance upon these data.

Page 5 of 5