# SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM® 422 Barrier Coat Additive

**APPLICABLE PRODUCT CODES:** ......422, 422-16

CHEMICAL FAMILY: Blend of aluminum powder (stabilized) and silicates

INTENDED PRODUCT USES: ..... Pigment additive for liquid epoxy resins

PRODUCT RESTRICTIONS: None identified SDS VERSION: 422-2019a

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

Non-transportation

Poison Hotline: ...... 800-222-1222

### 2. HAZARDS IDENTIFICATION

### Classification of Substance or Mixture

Skin corrosion/irritation, Category 2 Eye damage/irritation, Category 2A Combustible dust

### **Label Elements**

#### Hazard Pictogram(s):



### Signal Word:

WARNING

### **Hazard Statements:**

H315 Causes skin irritation

H319 Causes serious eye irritation

May form combustible dust concentrations in the air

#### **Precautionary Statements:**

Prevention

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/eye protection/protective clothing/face protection

Response

P302 + 352 IF ON SKIN: Wash with plenty of soap and water

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 advice/attention

P332 + P313 If skin irritation occurs: Get medical advice/attention

P362 + P364 Take off contaminated clothing and wash before reuse

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 (%)
Aluminum	7429-90-5	60-80
Muscovite mica	12001-26-2	30-60

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

Last Revised: 15JAN19

	FIRST AID FOR EYES
	FIRST AID FOR SKIN
	FIRST AID FOR INHALATION
	FIRST AID FOR INGESTION
5.	FIRE FIGHTING MEASURES
	<b>EXTINGUISHING MEDIA:</b> SUITABLE: DRY sand, sodium chloride powder, graphite powder or Met-L-X powder. Use only agents suitable for metal fires. Confining and smothering metals fires is preferred rather than applying water. Apply extinguishing media carefully to avoid creating airborne dust. NON-SUITABLE: Do not use water, foam or CO <sub>2</sub> or any high-pressure media. Using water on metallic fires may generate hydrogen gas, creating a dangerous explosion hazard.
	FIRE AND EXPLOSION HAZARDS:
	SPECIAL FIRE FIGHTING PROCEDURES:
6.	ACCIDENTAL RELEASE MEASURES
	<b>EMERGENCY PROCEDURES:</b>
	MITIGATION AND CLEAN UP PROCEDURES: Eliminate all ignition sources (no smoking, flares, sparks, flames, etc.). Take precautionary measures to prevent static discharge. Use methods that avoid generating airborne dust. Use a vacuum with high efficiency particulate air (HEPA) filtration is recommended. Do not create a dust cloud by brushing or sweeping, or using compressed air.
	ENVIRONMENTAL PRECAUTIONS: Contain spilled product to the extent practical and feasible.
7.	HANDLING AND STORAGE
	<b>STORAGE TEMPERATURE (min./max.):</b>
	STORAGE:
	HANDLING PRECAUTIONS:
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION
	ENGINEERING CONTROLS:
	EYE PROTECTION GUIDELINES:
	<b>SKIN PROTECTION GUIDELINES:</b> Liquid-proof gloves (such as neoprene or nitrile) should be used in cases of prolonged or repeated contact to prevent skin irritation. Barrier creams can be used effectively.
	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:

Page 2 of 6 Last Revised: 15JAN19

**OCCUPATIONAL EXPOSURE LIMITS:**Exposure limits may not be established for this product as a whole. For established exposure limits of specific ingredients in this product, or other available exposure limit information, refer to the table below.

Ingredient Name	CAS#	Exposure Limit Information
Aluminum	7429-90-5	OSHA: Table Z-1, PEL 15 mg/m³, TWA, total dust; 5 mg/m³, TWA, Respirable ACGIH: TLV, 1mg/m³, TWA, Respirable NIOSH: REL, 10 mg/ m³ total dust; 5 mg/m³, TWA, Respirable
Muscovite mica	12001-26-2	OSHA: 20 mppcf, TWA, Appendix C - Mineral Dusts ACGIH: TLV, 3mg/m³, TWA, Respirable NIOSH: REL, 3 mg/m³, TWA, Respirable

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Powder, solid.
COLOR:	Silver-gray.
ODOR:	
ODOR THRESHOLD:	No data available
pH	No data available
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)	2.5 – 2.7
BULK DENSITY	20.86 – 22.53 lb./gal. calculated
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data available
WATER SOLUBILITY (% BY WT.)	Largely insoluble.
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	No data available.
% VOLATILE BY WEIGHT:	
EXPLOSIVE PROPERTIES:	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:	300 – 400 (aluminum powder component)
MAXIMUM EXPLOSION PRESSURE (Pmax)	12.4 bar (aluminum powder component)
MINIMUM IGNITION ENERGY (MIE):	
MAXIMUM EXPLOSION CONCENTRATION (MEC):	
DUST EXPLOSION CLASSIFICATION:	Class 3 (aluminum powder component)

# 10. STABILITY AND REACTIVITY

STABILITY:	Product is stable at normal temperatures and pressures.
REACTIVITY/HAZARDOUS REACTIONS:  The rate of gas generation does not meet physical hazard classifications.	Product will react with water to generate highly flammable hydrogen gas. tion criteria.
INCOMPATIBILITIES:	Nitrates, water, acids, caustics.
conditions to avoid:	Avoid settling dust collection and airborne dust formation. Avoid a moist or
DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide

# 11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

Component Name	CAS#	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation
Aluminum	7429-90-5	> 2000 mg/kg	No data	< 888 mg/L 4 h
Muscovite mica	12001-26-2	> 2000 mg/kg	No data	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. Based on available data does not meet acute oral
toxicity criteria.	
Dermal:	Not classified. Based on available data does not meet acute
dermal toxicity criteria.	

Page 3 of 6 Last Revised: 15JAN19

Inhalation:	. Not cla	ssified. Based on available	data does not meet acute inhalation
toxicity criteria.  SKIN CORROSION / IRRITATION:of mechanical irritation.	. Causes	s skin irritation – Category 2	2. Skin irritation may be a result
SERIOUS EYE DAMAGE / IRRITATION:a result of mechanical irritation.	. Causes	s serious eye irritation. Cate	egory 2A. Eye irritation may be
RESPIRATORY SENSITIZATION: respiratory sensitizer.	. Not cla	ssified. Based on available	data does not meet criteria for
SKIN SENSITIZATION: skin sensitization.	. Not cla	ssified. Based on available	data does not meet criteria for
REPRODUCTIVE TOXICITY: reproductive toxicity.	. Not cla	ssified. Based on available	data does not meet criteria for
MUTAGENICITY: mutagenicity.	. Not cla	ssified. Based on available	data does not meet criteria for
CARCINOGENICITY:carcinogenicity. Does not contain components > 0.1% that are listed a			
STOT (Single Exposure):for STOT SE.	. Not cla	ssified. Based on available	data does not meet classification criteria
STOT (Repeated Exposure):	. Not cla	ssified. Based on available	data does not meet classification criteria
ASPIRATION HAZARD:toxicity criteria.	. Not cla	ssified. Based on available	data does not meet aspiration
OTHER HEALTH HAZARD INFORMATION:	. None k	nown.	
ECOLOGICAL INFORMATION			
ACUTE AQUATIC TOXICITY:Estimate: Does not meet acute aquatic toxicity criteria.	. No spe	cific test data available for t	this product. Calculated
CHRONIC AQUATIC TOXICITY:	No specific test data available for this product. Calculated		
PERSISTANCE AND BIODEGRADABILITY:			
MOBILITY IN SOIL:			
ADDITIONAL ECOTOXICITY INFORMATION: Prevent release to the environment, sewers and natural waters.			
Ingredient		CAS#	Ecotoxicity Classification Information
Aluminum		7429-90-5	No data available.
Muscovite mica		12001-26-2	No data available.
maddotho milu		12001 20 2	110 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:	Not applicable.
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	
PACKING GROUP:	Not applicable.
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CANADA TDG	
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Page 4 of 6 Last Revised: 15JAN19

SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.
ICAO/IATA UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP: MARINE POLLUTANT:	
IMDG UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP: 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)	CAS# 7429-90-5 listed on DSL. Not listed on NDSL.
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 311 or 312 Refer to the health and physical classifications in section 2.

Subject to Section 313 CAS# 7429-90-5 is subject to TRI reporting under SARA Title III.

### 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.

STATE CODE

1CA

# COMPONENT NAME /CAS NUMBER

This product may contain trace levels of various metallic impurities at levels below their analytical (ppm) detection limits. Metallic pigments may contain naturally occurring heavy metals not intentionally added during the manufacturing process.

CAS# (Not Applicable)

## 16. OTHER INFORMATION

REASON FOR ISSUE:

PREPARED BY:

Gougeon Brothers, Inc.

SDS CONTACT:

Safety@gougeon.com

TITLE:

Health, Safety & Environmental Manager

APPROVAL DATE:

SUPERSEDES DATE:

April 3, 2017

SDS VERSION:

422-2019a

## OTHER HAZARD INFORMATION AND RATING SYSTEMS:

Page 5 of 6 Last Revised: 15JAN19

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

### **HMIS® RATING**

HEALTH:	1
FLAMMABILITY:	2
PHYSICAL HAZARD:	2
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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Page 6 of 6 Last Revised: 15JAN19