# SAFETY DATA SHEET

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ......WEST SYSTEM® 422 Barrier Coat Additive

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

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

PRODUCT RESTRICTIONS: None identified SDS VERSION: 422-2016a

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

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

Specific target organ toxicity (single exposure – inhalation), Category 3 Specific target organ toxicity (repeated exposure – inhalation), Category 2

Combustible dust

#### **Label Elements**

#### Hazard Pictogram(s):



#### Signal Word:

WARNING

### **Hazard Statements:**

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H373 May cause damage to organs through prolonged or repeated exposure by inhalation

May form combustible dust concentrations in the air

#### **Precautionary Statements:**

**Prevention** 

P260 Do not breathe dust

P264 Wash hands thoroughly after handling

P271 Use only outdoors or in a well ventilated area

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

Response

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

P304 + P340 IF INHALED: Remove to fresh air and keep comfortable for breathing

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P312 Call a POISON CONTROL CENTER or doctor if you feel unwell

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

Storage

P403 + P233 Store in a well ventilated place. Keep container tightly closed

P405 Store locked up

Disposal

P501 Dispose of contents and container according to local, state, national and International regulations

Keep away from all ignition sources including heat, sparks and open flame

Prevent dust accumulations to minimize explosion hazard

#### Other Hazards

None known.

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# 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Aluminum	7429-90-5	60-100
Muscovite mica	12001-26-2	20-40

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as a trade secret. Ingredient ranges provided may represent actual concentration ranges. Any ingredient not disclosed may have been determined not to pose a health or environmental hazard, or may only be present in concentrations that do not require disclosure. Refer to Section 15 for additional information regarding a WHMIS CBI claim.

4.	FIRST AID MEASURES
	FIRST AID FOR EYES
	FIRST AID FOR SKIN
	FIRST AID FOR INHALATION
	FIRST AID FOR INGESTION
5.	FIRE FIGHTING MEASURES
	EXTINGUISHING MEDIA:
	FIRE AND EXPLOSION HAZARDS:
	<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> In the event of a fire, do not breathe fumes. Wear a self-contained breathing apparatus and complete full-body personal protective equipment. Dust may form an explosive mixture in the air, possibly resulting in a secondary explosion. Apply only suitable extinguishing agents to fire.
6.	ACCIDENTAL RELEASE MEASURES
	PERSONAL PRECAUTIONS AND PROTECTIVE EQUIPMENT: Use only non-spark tools and methods. Keep unnecessary and unprotected personnel from entering area. Use appropriate safety and personal protective equipment as indicated in Section 8.
	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:
7.	HANDLING AND STORAGE
	<b>STORAGE TEMPERATURE (min./max.):</b> 0°F (-17°C) / 95°F (35°C)
	STORAGE:
	HANDLING PRECAUTIONS:
	EXPOSURE CONTROL S/PERSONAL PROTECTION

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**EYE PROTECTION GUIDELINES:** Safety glasses with side shields, or goggles if necessary.

SKIN PROTECTION GUIDELINES: 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. exposures below established limits. 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. Do not eat, drink or smoke when handling this product. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the exposure to this product under normal use conditions. 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

# PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Powder solid
COLOR:	
ODOR:	
ODOR THRESHOLD:	
pH	
MELTING POINT / FREEZING POINT	
BOILING POINT (760mm/Hg):	No data available
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)	
BULK DENSITY	
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data available
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available
KINEMATIC VISCOSITY:	No data available (mm²/s @ 20°C)
DECOMPOSITION TEMPERATURE:	
% VOLATILE BY WEIGHT:	
	Dust may form explosive mixtures in air. Explosive properties of this mixture
	xture 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)	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 classificat	Product will react with water to generate highly flammable hydrogen gas. on 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.

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#### 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

**SKIN CORROSION / IRRITATION**: Causes skin irritation – Category 2. Skin irritation may be a result of mechanical irritation.

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.

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OTHER HEALTH HAZARD INFORMATION: ...... None known.

# 12. ECOLOGICAL INFORMATION

Estimate: Does not meet acute aquatic toxicity criteria.

Estimate: Does not meet chronic aquatic toxicity criteria.

Ingredient	CAS#	Ecotoxicity Classification Information
Aluminum	7429-90-5	No data available.
Muscovite mica	12001-26-2	No 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

03 001	
UN NUMBER:	Not regulated.
SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	
PACKING GROUP:	

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CA	NA	DA	TDG
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UN NUMBER:	Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	

#### ICAO/IATA

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

#### **IMDG**

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

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Canada WHMIS Confidential Business Information (CBI):...... The HMIRA number issued for this CBI claim is #10274. The date of filing is 2016-08-08.

# US EPA SARA TITLE III Reporting and Notification Requirements:

Subject to Section 302 (TPQ)	No data available.
Subject to Section 304 (RQ)	No data available.
Subject to Section 311 or 312	Fire.
Subject to Section 313	

# 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

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)

<sup>1</sup>CA

**STATE CODE** 

# 16. OTHER INFORMATION

Update to Sections 3 and 15 to Canada WHMIS 2015 requirements.
G. M. House
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safety@gougeon.com
Health, Safety & Environmental Manager
August 17, 2016
June 1, 2015
422-2016a

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

# OTHER HAZARD INFORMATION AND RATING SYSTEMS:

# **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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