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: 422-2022a

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

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

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	FIRST AID FOR EYESSYM tearing. RESPONSE: Flush with water for at least 15 minutes. Remove condevelop and persist.	
	FIRST AID FOR SKIN	PTOMS: May cause mild skin irritation. RESPONSE: Wash with mild
	FIRST AID FOR INHALATIONSYM RESPONSE: Remove to fresh air if symptoms develop and keep comfortab	
	FIRST AID FOR INGESTION	
5.	FIRE FIGHTING MEASURES	
	EXTINGUISHING MEDIA: SUIT X powder. Use only agents suitable for metal fires. Confining and smotherin extinguishing media carefully to avoid creating airborne dust. NON-SUITAB water on metallic fires may generate hydrogen gas, creating a dangerous extension of the confidence of the	g metals fires is preferred rather than applying water. Apply LE: Do not use water, foam or CO₂ or any high-pressure media. Using
	FIRE AND EXPLOSION HAZARDS:	
	SPECIAL FIRE FIGHTING PROCEDURES:	
6.	ACCIDENTAL RELEASE MEASURES	
	EMERGENCY PROCEDURES:	
	MITIGATION AND CLEAN UP PROCEDURES: Elimi Take precautionary measures to prevent static discharge. Use methods that particulate air (HEPA) filtration is recommended. Do not create a dust cloud	t avoid generating airborne dust. Use a vacuum with high efficiency
	ENVIRONMENTAL PRECAUTIONS:	ain spilled product to the extent practical and feasible.
7.	HANDLING AND STORAGE	
7.	HANDLING AND STORAGE STORAGE TEMPERATURE (min./max.):	-17°C) / 95°F (35°C)
7.		e in cool, dry place. Keep container tightly closed in a dry area and do exceeding 95°F (35°C). Keep away from sources of ignition or heat.
7.	STORAGE: Store ont allow contact with water. Do not store directly in the sun or in conditions	e in cool, dry place. Keep container tightly closed in a dry area and do exceeding 95°F (35°C). Keep away from sources of ignition or heat. d in Section 10. d dust formation. Avoid breathing dust. Wash hands and face after re dust can be generated. Use only equipment that is rated for safe explosive mixture with air. Take precautionary measures against static hed/grounded. Dust deposits should not be allowed to accumulate on
7 .	STORAGE TEMPERATURE (min./max.):	e in cool, dry place. Keep container tightly closed in a dry area and do exceeding 95°F (35°C). Keep away from sources of ignition or heat. d in Section 10. d dust formation. Avoid breathing dust. Wash hands and face after re dust can be generated. Use only equipment that is rated for safe explosive mixture with air. Take precautionary measures against static hed/grounded. Dust deposits should not be allowed to accumulate on
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	STORAGE TEMPERATURE (min./max.):	e in cool, dry place. Keep container tightly closed in a dry area and do exceeding 95°F (35°C). Keep away from sources of ignition or heat. d in Section 10. d dust formation. Avoid breathing dust. Wash hands and face after re dust can be generated. Use only equipment that is rated for safe explosive mixture with air. Take precautionary measures against static hed/grounded. Dust deposits should not be allowed to accumulate on allow contact with water. Product will react with water to generate with adequate general ventilation and/or local ventilation to keep
	STORAGE TEMPERATURE (min./max.):	e in cool, dry place. Keep container tightly closed in a dry area and do exceeding 95°F (35°C). Keep away from sources of ignition or heat. It in Section 10. It did dust formation. Avoid breathing dust. Wash hands and face after re dust can be generated. Use only equipment that is rated for safe explosive mixture with air. Take precautionary measures against static hed/grounded. Dust deposits should not be allowed to accumulate on allow contact with water. Product will react with water to generate with adequate general ventilation and/or local ventilation to keep ty glasses with side shields, or goggles if necessary.
	STORAGE TEMPERATURE (min./max.):	e in cool, dry place. Keep container tightly closed in a dry area and do exceeding 95°F (35°C). Keep away from sources of ignition or heat. It in Section 10. It diust formation. Avoid breathing dust. Wash hands and face after re dust can be generated. Use only equipment that is rated for safe explosive mixture with air. Take precautionary measures against static hed/grounded. Dust deposits should not be allowed to accumulate on allow contact with water. Product will react with water to generate with adequate general ventilation and/or local ventilation to keep ty glasses with side shields, or goggles if necessary. In deproof gloves (such as neoprene or nitrile) should be used in cases of be used effectively. In ventilation cannot be made adequate enough to keep exposures ilter, such as a N95 or greater, depending on specific workplace per selection of respirator and cartridge based on ingredients listed in cording the guidelines established in OSHA 1910.134 or other

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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:	No distinguishable 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)	
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)	
KINEMATIC VISCOSITY:	No data available (mm²/s @ 20°C)
DECOMPOSITION TEMPERATURE:	No data available.
% VOLATILE BY WEIGHT:	0.0%.
	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:	
MAXIMUM EXPLOSION PRESSURE (Pmax)	
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 classification.	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.

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

Component Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ 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.	Not classified. Based on available data does not meet acute oral
toxicity criteria.	Not classified. Dased on available data does not friest acute oral
Dermal:	Not classified. Based on available data does not meet acute
dermal toxicity criteria.	

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Inhalation:toxicity criteria.	Not classified. Based on avail	lable data does not meet acute inhalation
SKIN CORROSION / IRRITATION: of mechanical irritation.	Causes skin irritation – Categ	ory 2. Skin irritation may be a result
SERIOUS EYE DAMAGE / IRRITATION: a result of mechanical irritation.	Causes serious eye irritation.	Category 2A. Eye irritation may be
RESPIRATORY SENSITIZATION: respiratory sensitizer.	Not classified. Based on avail	lable data does not meet criteria for
SKIN SENSITIZATION: skin sensitization.	Not classified. Based on avail	lable data does not meet criteria for
REPRODUCTIVE TOXICITY: reproductive toxicity.	Not classified. Based on avail	lable data does not meet criteria for
MUTAGENICITY: mutagenicity.	Not classified. Based on avail	lable data does not meet criteria for
CARCINOGENICITY: carcinogenicity. Does not contain components > 0.1% that are list		
STOT (Single Exposure): for STOT SE.	Not classified. Based on avail	lable data does not meet classification crite
STOT (Repeated Exposure):	Not classified. Based on avail	lable data does not meet classification crite
ASPIRATION HAZARD: toxicity criteria.	Not classified. Based on avail	lable data does not meet aspiration
OTHER HEALTH HAZARD INFORMATION:	None known.	
ECOLOGICAL INFORMATION		
ACUTE AQUATIC TOXICITY:Estimate: Does not meet acute aquatic toxicity criteria.	No specific test data available	e for this product. Calculated
CHRONIC AQUATIC TOXICITY:	No specific test data available	e for this product. Calculated
PERSISTANCE AND BIODEGRADABILITY:	No specific test data available	e for this product.
MOBILITY IN SOIL:	No specific test data available	e for this product.
ADDITIONAL ECOTOXICITY INFORMATION:	Prevent release to the environ	nment, sewers and natural waters.
Ingredient	CAS#	Ecotoxicity Classification Information
Aluminum	7429-90-5	No data available.
	10001 00 0	N. 14

13. DISPOSAL CONSIDERATIONS

Muscovite mica

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.

12001-26-2

No data available.

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 applicableNot applicableNot applicable.
CANADA TDG	Not regulated

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SHIPPING NAME:	. Not applicable.
TECHNICAL SHIPPING NAME:	. Not applicable.
HAZARD CLASS:	. Not applicable.
PACKING GROUP:	. Not applicable.
	• • •
ICAO/IATA	
UN NUMBER:	. Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	
MARINE POLLUTANT:	. Not applicable.
	• • •
IMDG	
UN NUMBER:	. Not regulated.
SHIPPING NAME:	. Not applicable.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	. Not applicable.
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)	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.

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

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.

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)

STATE CODE

1CA

16. OTHER INFORMATION

REASON FOR ISSUE:

PREPARED BY:

SOURCE Gougeon Brothers, Inc.

SDS CONTACT:

Safety@gougeon.com

TITLE:

Health, Safety & Environmental Manager

APPROVAL DATE:

SUPERSEDES DATE:

January 15, 2019

SDS VERSION:

422-2022a

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

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^{1.} 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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