SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM[®] 404 High-Density Filler

APPLICABLE PRODUCT CODES:404, 404-15, 404-45, 404-B

INTENDED PRODUCT USES: Thickening agent for liquid epoxy resins.

SDS VERSION:404-2022a

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

Skin Irritation, Category 2 Eye Irritation, Category 2B Carcinogenicity, Category 1A

Specific target organ toxicity (repeated exposure), Category 1

Specific target organ toxicity (single exposure), Category 3

Label Elements

Hazard Pictogram(s):



Signal Word:

DANGER

Hazard Statements:

H315 Causes skin irritation

H320 Causes eye irritation

H335 May cause respiratory irritation

H350 May cause cancer

H372 Causes damage to organs (lungs) through prolonged or repeated exposure

Precautionary Statements:

Prevention

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area

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

P284 In case of inadequate ventilation wear respiratory protection

Response

P302 + P352 IF ON SKIN: Wash with plenty of water and soap

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

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

P308 + P313 If exposed or concerned: Get medical advice/attention

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

P337 + P313 If eye irritation persists: Get medical attention/advice P362 + P364 Take off contaminated clothing and wash it before reuse

<u>Storage</u>

P405 Store locked up

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

Other Hazards

None known.

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3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Calcium metasilicate mineral (wollastonite)	13983-17-0	80-100
Siloxanes and silicones, di-Me, reaction products with silica	67762-90-7	5-10
Silicon Dioxide (quartz, crystalline silica)	14808-60-7	0.1-1.5

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	
		. SYMPTOMS: Excessive exposure may cause mechanical irritation, redness emove contact lenses if present and easy to do. Consult a physician as a
	FIRST AID FOR SKINRESPONSE: Wash with mild soap and water.	. SYMPTOMS: May cause skin dryness and skin irritation, itching.
	FIRST AID FOR INHALATIONirritation or shortness of breath due to temporary lung overload. RESF breathing. Seek medical advice is symptoms persist.	. SYMPTOMS: Excessive exposure may cause coughing, respiratory PONSE: Remove to fresh air if symptoms develop and keep comfortable for
	FIRST AID FOR INGESTIONRESPONSE: Seek medical attention if a significant amount is ingeste	. SYMPTOMS: May be a temporary irritant to the gastrointestinal system. d.
5.	FIRE FIGHTING MEASURES	
	EXTINGUISHING MEDIA: combustion. Choose an extinguishing agent suitable for the surroundi	. SUITABLE: The majority composition of this product will not support ng fire.
	FIRE AND EXPLOSION HAZARDS:expected to form a combustible dust concentration in the air.	. The majority composition of this product will not support combustion. Not
	SPECIAL FIRE FIGHTING PROCEDURES:protective equipment. Dust may form an explosive mixture in the air,	. Wear a self-contained breathing apparatus and complete full-body personal possibly resulting in a secondary explosion.
6.	ACCIDENTAL RELEASE MEASURES	
	EMERGENCY PROCEDURES: appropriate safety and personal protective equipment as indicated in	. Keep unnecessary and unprotected personnel from entering area. Use Section 8.
	appropriate safety and personal protective equipment as indicated in MITIGATION AND CLEAN UP PROCEDURES:	. Keep unnecessary and unprotected personnel from entering area. Use Section 8. . Use methods that avoid generating airborne dust. Use a vacuum with high thing a dust cloud by brushing or sweeping, or using compressed air. Spilled
	appropriate safety and personal protective equipment as indicated in MITIGATION AND CLEAN UP PROCEDURES: efficiency particulate air (HEPA) filtration is recommended. Avoid creations are commended as a second commended.	Section 8. Use methods that avoid generating airborne dust. Use a vacuum with high ting a dust cloud by brushing or sweeping, or using compressed air. Spilled
7.	appropriate safety and personal protective equipment as indicated in MITIGATION AND CLEAN UP PROCEDURES: efficiency particulate air (HEPA) filtration is recommended. Avoid creamaterial may cause slippery conditions when wet.	Section 8. Use methods that avoid generating airborne dust. Use a vacuum with high ting a dust cloud by brushing or sweeping, or using compressed air. Spilled
7.	appropriate safety and personal protective equipment as indicated in MITIGATION AND CLEAN UP PROCEDURES: efficiency particulate air (HEPA) filtration is recommended. Avoid creamaterial may cause slippery conditions when wet. ENVIRONMENTAL PRECAUTIONS:	Section 8. Use methods that avoid generating airborne dust. Use a vacuum with high sting a dust cloud by brushing or sweeping, or using compressed air. Spilled . Contain spilled product to the extent practical and feasible.
7.	appropriate safety and personal protective equipment as indicated in MITIGATION AND CLEAN UP PROCEDURES: efficiency particulate air (HEPA) filtration is recommended. Avoid creamaterial may cause slippery conditions when wet. ENVIRONMENTAL PRECAUTIONS: HANDLING AND STORAGE STORAGE TEMPERATURE (min./max.):	Section 8. Use methods that avoid generating airborne dust. Use a vacuum with high sting a dust cloud by brushing or sweeping, or using compressed air. Spilled . Contain spilled product to the extent practical and feasible.
7.	appropriate safety and personal protective equipment as indicated in MITIGATION AND CLEAN UP PROCEDURES: efficiency particulate air (HEPA) filtration is recommended. Avoid creamaterial may cause slippery conditions when wet. ENVIRONMENTAL PRECAUTIONS: HANDLING AND STORAGE STORAGE TEMPERATURE (min./max.): STORAGE: absorption or absorption of other volatile materials. HANDLING PRECAUTIONS:	Section 8. . Use methods that avoid generating airborne dust. Use a vacuum with high sting a dust cloud by brushing or sweeping, or using compressed air. Spilled . Contain spilled product to the extent practical and feasible. . 0°F (-17°C) / 100°F (38°C)
7.	appropriate safety and personal protective equipment as indicated in MITIGATION AND CLEAN UP PROCEDURES: efficiency particulate air (HEPA) filtration is recommended. Avoid creamaterial may cause slippery conditions when wet. ENVIRONMENTAL PRECAUTIONS: HANDLING AND STORAGE STORAGE TEMPERATURE (min./max.): STORAGE: absorption or absorption of other volatile materials. HANDLING PRECAUTIONS: appropriate exhaust ventilation at points of operation where dust can	Section 8. Use methods that avoid generating airborne dust. Use a vacuum with high sting a dust cloud by brushing or sweeping, or using compressed air. Spilled Contain spilled product to the extent practical and feasible. O°F (-17°C) / 100°F (38°C) Store in cool, dry place. Store in sealed containers to prevent moisture Avoid dust formation. Do not breathing dust. Wash after handling. Provide
	appropriate safety and personal protective equipment as indicated in MITIGATION AND CLEAN UP PROCEDURES: efficiency particulate air (HEPA) filtration is recommended. Avoid creamaterial may cause slippery conditions when wet. ENVIRONMENTAL PRECAUTIONS: HANDLING AND STORAGE STORAGE TEMPERATURE (min./max.): STORAGE: absorption or absorption of other volatile materials. HANDLING PRECAUTIONS: appropriate exhaust ventilation at points of operation where dust can necessary. Avoid using compressed air.	Section 8. Use methods that avoid generating airborne dust. Use a vacuum with high sting a dust cloud by brushing or sweeping, or using compressed air. Spilled Contain spilled product to the extent practical and feasible. O°F (-17°C) / 100°F (38°C) Store in cool, dry place. Store in sealed containers to prevent moisture Avoid dust formation. Do not breathing dust. Wash after handling. Provide

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SKIN PROTECTION GUIDELINES: Gloves or a barrier cream may be useful to help prevent skin from drying.

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
Calcium metasilicate mineral (wollastonite)	13983-17-0	Dust and PNOS: ACGIH 10mg/m³, TWA, Inhalable; 3 mg/m³, TWA, Respirable; OSHA PEL 15 mg/m³, TWA, total dust; 5 mg/m³, TWA, Respirable
Siloxanes and silicones, di-Me, reaction products with silica	67762-90-7	Amorphous silica: OSHA PEL 6 mg/m³ Dust and PNOS: ACGIH 10mg/m³, TWA, Inhalable; 3 mg/m³, TWA, Respirable; OSHA PEL 15 mg/m³, TWA, total dust; 5 mg/m³, TWA, Respirable
Silicon Dioxide (quartz, crystalline silica)	14808-60-7	OSHA PEL: Respirable 0.050 mg/m³. NIOSH: TWA, Respirable 0.050 mg/m³. ACGIH TLV: Respirable 0.025 mg/m³. Potential Occupational Carcinogen. See Appendix A. Substance listed in OSHA – Tabel Z-1. For more information see OSHA document 1910.1053.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Powder, solid.
COLOR:	Off-White.
ODOR:	None.
ODOR THRESHOLD:	No data available
pH	
MELTING POINT / FREEZING POINT	Melting point > 1000°C / Will not freeze.
BOILING POINT (760mm/Hg):	No data available
FLASH POINT:	
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)	2.45-2.96
	Loose 2.45 (lbs./gal.); Tapped 3.37 (lbs./gal.); Packed 5.29 (lbs./gal.)
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	
WATER SOLUBILITY (% BY WT.)	Only slightly soluble
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	
% VOLATILE BY WEIGHT:	
	Not applicable. The majority components of this product will not support
combustion.	
Kst VALUE:	
MAXIMUM EXPLOSION PRESSURE (Pmax)	
MINIMUM IGNITION ENERGY (MIE):	
MAXIMUM EXPLOSION CONCENTRATION (MEC):	
DUST EXPLOSION CLASSIFICATION:	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.
INCOMPATIBILITIES:	None known.
CONDITIONS TO AVOID:	Avoid excessive airborne dust formation.

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11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

Component Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Calcium metasilicate mineral	13983-17-0	No data	No data	No data
Siloxanes and silicones, di-Me, reaction products with silica	67762-90-7	>5000 mg/kg OECD 401	>2000 mg/kg OECD 402	No data
Silicon Dioxide (quartz, crystalline silica)	14808-60-7	No data	No data	No data

ACUTE TOXICITY:	No specific toxicity data exists for this mixture. Classification is
Oral:	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:irritation or abrasion.	Causes eye irritation. Category 2B. May cause mechanical
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.
(quartz). Crystalline silica (quartz) is classified by IARC as a Group 1	May cause cancer. Category 1A. Product may contain crystalline silica , Carcinogenic to humans, based on human evidence. Crystalline silica s, based on human evidence. Crystalline silica (quartz) is not classified by

This product may contain respirable crystalline silica at levels <1.5%. Chronic health risks are associated with exposure to respirable particles of 3-4 µm over protracted periods of time. Currently, there is evidence that exposure to crystalline silica (respirable, quartz) may cause cancer. There is also limited understanding of the mechanisms of quartz toxicity, including its mechanisms for lung carcinogenicity. Additional studies are needed to determine whether the cell transforming activity of quartz is related to its carcinogenic potential.

No evidence of carcinogenicity was observed in multiple animal species following repeated oral or inhalation exposure to synthetic amorphous silica. Similarly, epidemiology studies show no evidence of carcinogenicity in workers who manufacture synthetic amorphous silica.

Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue.

Synthetic amorphous silica: 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.

OTHER HEALTH HAZARD INFORMATION:Excessive inhalation exposure can irritate the respiratory tract and cause temporary lung overload resulting in coughing and shortness of breath.

12. ECOLOGICAL INFORMATION

ADDITIONAL ECOTOXICITY INFORMATION: Ingredient	CAS#	Ecotoxicity Classification
	·	
MOBILITY IN SOIL:	No specific test data available for	r the mixture.
PERSISTANCE AND BIODEGRADABILITY:	. Not applicable to inorganic subst	ances.
CHRONIC AQUATIC TOXICITY:	. Not classified. Does not meet ac	ute aquatic toxicity criteria.
ACUTE AQUATIC TOXICITY:	. Not classified. Does not meet ac	ute aquatic toxicity criteria.

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Calcium metasilicate mineral	13983-17-0	No data available.
Siloxanes and silicones, di-Me, reaction products with silica	67762-90-7	No data available.
Silicon Dioxide (quartz, crystalline silica)	14808-60-7	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

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

14. TRANSPORTATION INFORMATION

US DOT (49 CFR) Non-Bulk UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP:	. Not applicable.. Not applicable.. Not applicable.
CANADA TOG	

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

ICAO/IATA

UN NUMBER:	inot requiated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	Not applicable.
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.
MARINE POLLUTANT:	Not applicable.

IMDG	
UN NUMBER:	Not regulated.
SHIPPING NAME:	Not applicable.
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	Components are listed or otherwise compliant.
Europe	EINECS or ELINCS	Components are listed or otherwise compliant.
Canada	CEPA (DSL/NDSL)	Components are listed or otherwise compliant.
Australia	AICS	Components are listed or otherwise compliant.
Japan	ENCS	Components are listed or otherwise compliant.
South Korea	KECI	Components are listed or otherwise compliant.
China	IECSC	Components are listed or otherwise compliant.
Philippines	PICCS	Components are listed or otherwise compliant.
New Zealand	NZIoC	Components are listed or otherwise compliant.

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

US EPA SARA TITLE III Reporting and Notification Requirements:

Subject to Section 302 (TPQ)	Not regulated.
Subject to Section 304 (RQ)	

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.

Page 5 of 6 Last Revised: 03JAN22 COMPONENT NAME /CAS NUMBER

Amorphous silica 7631-86-9 or 67762-90-7 Quartz, respirable 14808-60-7

STATE CODE

PA, NJ, MA

¹CA, PA, NJ, MA

16. OTHER INFORMATION

REASON FOR ISSUE: Approval date change.
PREPARED BY: Gougeon Brothers, Inc.
SDS CONTACT: safety@gougeon.com
TITLE: Health, Safety & Environmental Manager
APPROVAL DATE: January 3, 2022

 SUPERSEDES DATE:
 February 10, 2020

 SDS VERSION:
 404-2022a

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

HEALTH:	1
FLAMMABILITY:	0
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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^{1.} These substances are known to the state of California to cause cancer or reproductive harm, or both.