MATERIAL SAFETY DATA SHEET Gougeon Brothers, Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM[®] 423™ Graphite Powder.

CHEMICAL NAME:..... Natural Graphite.

FORMULA:C

MANUFACTURER: EMERGENCY TELEPHONE NUMBERS:

Gougeon Brothers, Inc.

Transportation

100 Patterson Avenue CHEMTREC:800-424-9300

Bay City, MI 48706, U.S.A. Non-transportation

Phone: 989-684-7286 Poison Hotline:313-745-5711

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME CAS# CONCENTRATION

Graphite (the crystalline allotropic form of Carbon) 7782-42-5 96 - 100% Silica (crystalline) 14808-60-7 0 - 4%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS Hazard Rating: Health - 1 Flammability - 0 Reactivity - 0

DANGER! Possible cancer hazard. Nuisance dust. Avoid inhalation of airborne dust. Black/gray odorless solid

PRIMARY ROUTE(S) OF ENTRY: Inhalation.

POTENTIAL HEALTH EFFECTS:

ACUTE SKIN CONTACT: Mild irritation.

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	CHRONIC SKIN CONTACT:	No evidence of long-term health effects.
	EYE CONTACT:	. Moderate irritation.
	INGESTION:	No information.
	SYMPTOMS OF OVEREXPOSURE:	Respiratory irritation, shortness of breath or coughing.
	MEDICAL CONDITIONS AGGRAVATED BY Emphysema, asthma or other respiratory conditions.	
4.	FIRST AID MEASURES:	
	FIRST AID FOR EYES: discomfort persists, seek medical advice.	Flush adequately with water to remove particles. If
	FIRST AID FOR SKIN:	Wash with soap and water.
	FIRST AID FOR INHALATION: seek medical advice.	Remove to fresh air if effects occur. If effects persists,
	FIRST AID FOR INGESTION:	No information.
5.	FIRE FIGHTING MEASURES:	
	FLASH POINT:	Not applicable.
	EXTINGUISHING MEDIA:	Water.
	SPECIAL FIRE FIGHTING PROCEDURES: Spray with water.	
6.	ACCIDENTAL RELEASE MEASURES:	
	SPILL OR LEAK PROCEDURES: equipment. Do so in a manner that minimizes airbox	Sweep and shovel or use properly grounded vacuum rne dust.
7.	HANDLING AND STORAGE:	
	STORAGE TEMPERATURE (min./max.):	0°F (-17°C)/100°F (38°C).
	SHELF LIFE:	. Indefinite, if stored properly.
	STORAGE:	Keep away from oxidizing agents.
		Avoid handling that will unnecessarily generate airborned exercise caution when handling in areas where contact

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EYE PROTECTION GUIDELINES: Safety glasses or goggles are recommended, depending on the expected level of exposure.

SKIN PROTECTION GUIDELINES: Areas expected to have repeated exposure, such as hands, may need to be protected by an impervious material to prevent dryness and irritation. Barrier creams can be used effectively.

RESPIRATORY/VENTILATION GUIDELINES:

Work environments should be maintained below applicable exposure level through the use of engineering controls, such as dilution and exhaust ventilation. If this is not feasible, use a NIOSH approved dust mask/respirator for nuisance dust.

ADDITIONAL PROTECTIVE MEASURES:

Practice good industrial hygiene by washing with soap and water after each use. Avoid excessive inhalation.

OCCUPATIONAL EXPOSURE LIMITS: This product should be treated as a nuisance dust. Refer to OSHA's Permissible Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM	Powder.
COLOR	Gray/Black.
ODOR	Odorless.
BOILING POINT	No data.
MELTING POINT/FREEZE POINT	Sublimes at 3650°C.
pH	No data.
SOLUBILITY IN WATER	
SPECIFIC GRAVITY	1.80 to 2.25
BULK DENSITY	3.755 pounds/gallon.
VAPOR PRESSURE	
VAPOR DENSITY	* *
% VOLATILE BY WEIGHT	* *

10. REACTIVITY:

STABILITY:	. Stable.
HAZARDOUS POLYMERIZATION:	. Will not occur.
INCOMPATIBILITIES:	. Oxidizing agents.
DECOMPOSITION PRODUCTS:	. Carbon monoxide (CO) and carbon dioxide (CO ₂).

11. TOXICOLOGICAL INFORMATION:

No information.

CARCINOGENICITY:	NOGENICITY:
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NTP	. Yes (crystalline silica, present at 0 - 4%)
IARC	. Yes (crystalline silica, present at 0 - 4%)
OSHA	No.

International Agency for Research on Cancer (IARC) Monograph Vol. 68, 1997, concludes that there is sufficient evidence that inhaled crystilline silica causes cancer in humans. IARC Classification is Group 1.

12. ECOLOGICAL INFORMATION:

No information.

13. <u>DISPOSAL CONSIDERATIONS:</u>

WASTE DISPOSAL METHOD: This material is determined not to be a hazardous waste as per RCRA standards, either by listing or characteristics. Disposer must comply with all federal, state and local laws. Landfill is the preferred disposal method.

14. TRANSPORTATION INFORMATION:

D.O.T. SHIPPING NAME:	Not regulated by D.O.T.
TECHNICAL SHIPPING NAME:	
D.O.T. HAZARD CLASS:	
U.N./N.A. NUMBER:	
PACKING GROUP:	

15. REGULATORY INFORMATION:

OSHA STATUS:	. Hazardous. Nuisance dust. Possible carcinogen.
TSCA STATUS:	. All components are listed on TSCA Inventory.
SARA TITLE III:	1
SECTION 313 TOXIC CHEMICALS	. None.

STATE REGULATORY INFORMATION:

The following chemicals are specifically listed or otherwise regulated by individual states. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME

/CAS NUMBER	CONCENTRATION	STATE CODE
Crystalline Silica		
14808-60-7	0 -4%	^{1}CA

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

16. OTHER INFORMATION:

REASON FOR ISSUE: Information update in Section 2, 3, 11, 15 and 16.

PREPARED BY:	T. J. Atkinson
APPROVED BY:	
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	· · · · · · · · · · · · · · · · · · ·
SUPERSEDES DATE:	· · · · · · · · · · · · · · · · · · ·
MSDS NUMBER:	

Note: The Hazardous Material Indexing System (HMIS), cited in the Emergency Overview of Section 3, uses the following index to assess hazard rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; and 4 = Severe.

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