MATERIAL SAFETY DATA SHEET West System Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

CHEMICAL NAME:..... Natural Graphite.

FORMULA: C

MANUFACTURER: EMERGENCY TELEPHONE NUMBERS:

West System Inc. Transportation

102 Patterson Ave. CHEMTREC:800-424-9300 (U.S.)

Bay City, MI 48706, U.S.A. 703-527-3887 (International)

Phone: 866-937-8797 or 989-684-7286 Non-transportation

www.westsystem.com Poison Hotline:800-222-1222

2. <u>COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS</u>

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:

CHRONIC INHALATION: Prolonged or repeated inhalation of dust may cause pulmonary fibrosis or emphysema. Possible lung cancer hazard.

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: Red, irritated skin. Eye irritation.	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 airbo	Sweep and shovel or use properly grounded vacuum orne dust.
7.	HANDLING AND STORAGE:	
	STORAGE TEMPERATURE (min./max.):	0°F (-17°C)/100°F (38°C).
	STORAGE:	Keep away from oxidizing agents.
		Avoid handling that will unnecessarily generate airborned exercise caution when handling in areas where contact with
8.	EXPOSURE CONTROLS/PERSONAL PROTE	CTION:

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	Insoluble.
SPECIFIC GRAVITY	1.80 to 2.25
BULK DENSITY	3.755 pounds/gallon.
VAPOR PRESSURE	Not applicable.
VAPOR DENSITY	Not applicable.
% VOLATILE BY WEIGHT	

10. REACTIVITY:

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STABILITI Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: Oxidizing agents.

Stable

11. TOXICOLOGICAL INFORMATION:

No information.

CARCINOGENICITY:

NTP	Yes (crystalline silica, present at 0 - 49	6)
IARC	Yes (crystalline silica, present at 0 - 49	6)

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. **DISPOSAL CONSIDERATIONS:**

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:

Not regulated by D.O.T.
Not applicable.
Not applicable.
Not applicable.
Not applicable.

15. REGULATORY INFORMATION:

OSHA STATUS:	Hazardous. Nuisance dust. Possible carcinogen.
TSCA STATUS:	All components are listed on TSCA Inventory.
SARA TITLE III:	
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:

Update in Section 1.
T. J. Atkinson
G. M. House
Health, Safety & Environmental Manager
January 3, 2005
January 5, 2004

MSDS NUMBER: 423-05a

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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