MATERIAL SAFETY DATA SHEET West System Inc.

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME:WEST SYSTEM[®] 702 and 703 Episize™ Unidirectional Carbon Tapes CHEMICAL FAMILY:Carbon 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 HAZARDS IDENTIFICATION **EMERGENCY OVERVIEW HMIS Hazard Rating:** Health - 1 Flammability - 1 Physical Hazards - 0 CAUTION! Nuisance dust. Avoid inhalation of airborne fibers. Skin and eye exposure may cause physical or mechanical irritation. Black Fiber. PRIMARY ROUTE(S) OF ENTRY: Inhalation, skin contact. **POTENTIAL HEALTH EFFECTS:** ACUTE INHALATION: Possible mechanical irritation to the respiratory tract. EYE CONTACT: Can cause mechanical irritation. INGESTION: No information that provides evidence of adverse health effects. SYMPTOMS OF OVEREXPOSURE: Respiratory tract irritation. Skin and eye irritation. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Respiratory conditions such as asthma. **COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS** CONCENTRATION **INGREDIENT NAME** CAS# <u>(%)</u> 7440-44-0 Carbon fiber, polyacrylonitrile based 100 FIRST AID MEASURES FIRST AID FOR INGESTION: No specific instructions. **FIRE FIGHTING MEASURES**

FLASH POINT: Not flammable.

MSDS #702-11a Last Revised: 06FEB11

6. **ACCIDENTAL RELEASE MEASURES** should be fully capable of handling a conductive material with no risk of electrical shock to the operator. Perform cleanup in a manner that minimizes airborne fibers HANDLING AND STORAGE STORAGE: Store away from exposed or intricate electrical circuitry. HANDLING PRECAUTIONS: Handle in a manner that minimizes airborne fibers. **EXPOSURE CONTROLS/PERSONAL PROTECTION** 8. level of exposure. Use a protective clothing that is not easily penetrated by the fibers, such as a coated Tyvek™ material, to protect otherwise exposed skin areas. exposure levels through the use of engineering controls, such as dilution and exhaust ventilation or containment. If this is not feasible, use a NIOSH approved nuisance dust respirator. Otherwise Classified (PNOC). Refer to OSHA's Permissible Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients. PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL FORM......Fiber.Odorless. BOILING POINT......No data. pHNot applicable. SOLUBILITY IN WATER...... Negligible, below 0.1%. SPECIFIC GRAVITY No data. VAPOR PRESSURE Not applicable. VAPOR DENSITY Not applicable. % VOLATILE BY WEIGHT......No data. STABILITY AND REACTIVITYStable STABILITY:..... HAZARDOUS POLYMERIZATION: Will not occur. INCOMPATIBILITIES: Electrical equipment and intricate circuitry. **DECOMPOSITION PRODUCTS:** Carbon monoxide (CO), carbon dioxide (CO₂) and oxides of nitrogen from combustion. TOXICOLOGICAL INFORMATION

Oral: No information.

Inhalation: See information below.

Dermal: No information

These Carbon Fibers are non-crystalline (amorphous), man-made fibers. Studies conducted indicate that airborne carbon fibers, in general, are not considered respirable. A typical carbon fiber may be characterized as having a large diameter (5 to 7 microns) in addition to great length (>100 microns). Fibers with diameters >3.5 microns are not considered respirable.

No adverse health effects were seen in rats from a 16-week inhalation exposure to polyacrylonitrile based carbon fibers. No component of this product present at levels greater than 0.1% is identified as a carcinogen.

CARCINOGENICITY:

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

12. ECOLOGICAL INFORMATION

No specific information.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:Knowledge of materials reveals that this product is not a hazardous waste in its purchased form as per RCRA criteria, either by characteristics or by listing. However, it is the responsibility of the end user to determine proper disposal methods. Landfill disposal is preferred.

14. TRANSPORTATION INFORMATION

DOT

D.O.T. SHIPPING NAME:

TECHNICAL SHIPPING NAME:

D.O.T. HAZARD CLASS:

Not applicable.

U.N./N.A. NUMBER:

Not applicable.

Not applicable.

Not applicable.

Not applicable.

IATA

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

15. REGULATORY INFORMATION

OSHA STATUS: Hazardous. Nuisance dust.

TSCA STATUS: All components of this product are in compliance with TSCA

Inventory requirements.

Canada WHIMIS Classification: No data.

SARA TITLE III:

SECTION 313 TOXIC CHEMICALS......None.

STATE REGULATORY INFORMATION:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of this MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME

<u>/CAS NUMBER</u> <u>CONCENTRATION</u> <u>STATE CODE</u>

None known.

16. OTHER INFORMATION

PREPARED BY: G. M. House
APPROVED BY: G. M. House

TITLE: Health, Safety & Environmental Manager

 APPROVAL DATE:
 February 10, 2011

 SUPERSEDES DATE:
 January 3, 2008

 MSDS NUMBER:
 702-11a

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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MSDS #702-11a Last Revised: 06FEB11