

# MATERIAL SAFETY DATA SHEET

## West System Inc.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:**..... WEST SYSTEM® 407™ Low-Density Filler.  
**PRODUCT CODE:**..... 407  
**CHEMICAL FAMILY:**..... Phenolic Polymer.  
**CHEMICAL NAME:**..... Blend containing phenol-formaldehyde polymer.  
**FORMULA:**..... No information.

**MANUFACTURER:**  
West System Inc.  
102 Patterson Ave.  
Bay City, MI 48706, U.S.A.  
Phone: 866-937-8797 or 989-684-7286  
www.westsystem.com

**EMERGENCY TELEPHONE NUMBERS:**  
Transportation  
CHEMTREC:..... 800-424-9300 (U.S.)  
703-527-3887 (International)  
Non-transportation  
Poison Hotline: ..... 800-222-1222

### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS#</u>	<u>CONCENTRATION</u>
Phenol-formaldehyde resin	9003-35-4	40 - 60%
Expanded perlite	93763-70-3	30 - 45%
Silicon dioxide	7631-86-9	< 15%

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**HMIS Hazard Rating:**    **Health - 1**                      **Flammability - 1**                      **Physical Hazards - 0**

WARNING! Static ignition hazard. Avoid excessive inhalation of airborne dust. Reddish-brown hollow spheres with phenolic odor.

**PRIMARY ROUTE(S) OF ENTRY:** ..... Inhalation.

#### POTENTIAL HEALTH EFFECTS:

**ACUTE INHALATION:** ..... May cause irritation of the nose and throat, experienced as mild stinging, and possible nasal discharge.

**CHRONIC INHALATION:** ..... May aggravate existing respiratory conditions. May cause dryness of mucous membranes of the respiratory tract.

**ACUTE SKIN CONTACT:** ..... May cause irritation and dryness.

**CHRONIC SKIN CONTACT:** ..... Repeated exposure may cause dermatitis due to drying of the skin.

**EYE CONTACT:** ..... May cause minimal irritation, seen as redness and possible swelling of the conjunctiva.

**INGESTION:** ..... No evidence of adverse health effects from available information.

**SYMPTOMS OF OVEREXPOSURE:** ..... Coughing, shortness of breath or irritation of the respiratory tract. Dry, chapped or irritated skin. Irritated or tearing eyes.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Skin or respiratory conditions, such as dermatitis and asthma.

**4. FIRST AID MEASURES:**

**FIRST AID FOR EYES:** ..... Flush adequately with water to remove particles. If discomfort persists, seek medical advice.

**FIRST AID FOR SKIN:** ..... Wash with soap and water. Apply moisturizing cream to replenish moisture in the skin if necessary.

**FIRST AID FOR INHALATION:** ..... Remove to fresh air if effects occur. If effects persists, seek medical advice.

**FIRST AID FOR INGESTION:** ..... No specific information.

**5. FIRE FIGHTING MEASURES:**

**FLASH POINT:** ..... No data.

**EXTINGUISHING MEDIA:** ..... CO<sub>2</sub> or dry chemical for small fires, all purpose foam for larger fires.

**SPECIAL FIRE FIGHTING PROCEDURES:** ..... Use a self-contained breathing apparatus and appropriate protective clothing. Do not direct a stream of water or foam into burning molten material; this may result in spattering and spread of fire.

**6. ACCIDENTAL RELEASE MEASURES:**

**SPILL OR LEAK PROCEDURES:** Sweep and shovel or use properly grounded vacuum equipment. Do so in a manner that minimizes airborne dust.

**7. HANDLING AND STORAGE:**

**STORAGE TEMPERATURE (min./max.):** ..... 0°F (-17°C)/90°F (32°C)

**STORAGE:** ..... Store in a cool, well ventilated area. May ignite spontaneously if large amounts are heated or stored above 35°C (95°F). The temperature at which this occurs is a function of geometry and the amount of material being heated. Keep dry.

**HANDLING PRECAUTIONS:** ..... Avoid handling that will unnecessarily generate airborne dust. Properly ground all material handling equipment to prevent static discharge.

**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. 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. Apply moisturizing cream to replenish skin moisture if necessary. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

**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** ..... Reddish-brown.  
**ODOR** ..... Phenolic odor.  
**BOILING POINT** ..... No data.  
**MELTING POINT/FREEZE POINT** ..... No data.  
**pH** ..... No data.  
**SOLUBILITY IN WATER** ..... Largely insoluble.  
**SPECIFIC GRAVITY** ..... No data.  
**BULK DENSITY** ..... 1.01 pounds/gallon.  
**VAPOR PRESSURE** ..... Not applicable.  
**VAPOR DENSITY** ..... Not applicable.  
**% VOLATILE BY WEIGHT** ..... 4% max. (moisture).

**10. REACTIVITY:**

**STABILITY:** ..... Stable.

**HAZARDOUS POLYMERIZATION:** ..... Will not occur.

**INCOMPATIBILITIES:** ..... A chemical reaction is possible with strong bases or strong acids, especially hydrofluoric acid.

**DECOMPOSITION PRODUCTS:** ..... Burning at elevated temperatures can produce carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), phenol and formaldehyde.

**11. TOXICOLOGICAL INFORMATION:**

**CARCINOGENICITY:**

NTP ..... No.  
IARC ..... No.  
OSHA ..... No.

This material may contain trace amounts (< 0.0006%) of free formaldehyde, which is listed by IARC, NTP and OSHA as a carcinogen. Because of the extremely low concentration of formaldehyde, we would anticipate that exposure would be minimal or non-detectable under normal use conditions.

**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. Waste product may be sent to a landfill.

**14. TRANSPORTATION INFORMATION:**

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

**15. REGULATORY INFORMATION:**

**OSHA STATUS:** ..... Hazardous. Nuisance dust.  
**TSCA STATUS:** ..... All components are in compliance with TSCA requirements.  
**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.

<b><u>COMPONENT NAME</u></b> <b><u>/CAS NUMBER</u></b>	<b><u>CONCENTRATION</u></b>	<b><u>STATE CODE</u></b>
Formaldehyde 50-0-0	< 0.0006%	<sup>1</sup> 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:** ..... Changes made in Sections 3 & 8.  
**PREPARED BY:** ..... T. J. Atkinson  
**APPROVED BY:** ..... G. M. House  
**TITLE:** ..... Health, Safety & Environmental Manager  
**APPROVAL DATE:** ..... January 3, 2008  
**SUPERSEDES DATE:** ..... January 3, 2005  
**MSDS NUMBER:** ..... 407-08a

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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