

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** **Reactivity - 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: CO₂ 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.

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 (CO₂), 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 formaldehyde concentration, there should be minimal or no risk when used with adequate ventilation.

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.

COMPONENT NAME
/CAS NUMBER

CONCENTRATION

STATE CODE

Formaldehyde
50-0-0

< 0.0006%

¹CA

1. These substances are known to the State of California to cause cancer or reproductive harm, or both.

16. OTHER INFORMATION:

REASON FOR ISSUE:..... Update in Section 1.
PREPARED BY: T. J. Atkinson
APPROVED BY: G. M. House
TITLE: Health, Safety & Environmental Manager
APPROVAL DATE: January 3, 2005
SUPERSEDES DATE: January 5, 2004
MSDS NUMBER: 407-05a

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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