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: .............................. Gougeon Brothers, Inc.
100 Patterson Avenue
Bay City, MI 48706, U.S.A.
Phone: 989-684-7286

EMERGENCY TELEPHONE NUMBERS:
Gougeon Brothers, Inc. Transportation
CHEMTREC: ........800-424-9300
Non-transportation
Poison Hotline: .......313-745-5711

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS#</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol-formaldehyde resin</td>
<td>9003-35-4</td>
<td>40 - 60%</td>
</tr>
<tr>
<td>Expanded perlite</td>
<td>93763-70-3</td>
<td>30 - 45%</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>7631-86-9</td>
<td>&lt; 15%</td>
</tr>
</tbody>
</table>

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)

SHELF LIFE: Three years or longer if stored properly.
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: Information update in Section 15 and 16.
PREPARED BY: T. J. Atkinson
APPROVED BY: G. M. House
TITLE: Health, Safety & Environmental Manager
APPROVAL DATE: January 5, 2001
SUPERSEDES DATE: January 3, 1998
MSDS NUMBER: 407-01a

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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