

# MATERIAL SAFETY DATA SHEET

## West System Inc.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ..... WEST SYSTEM® 410™ Microlight™.  
**PRODUCT CODE:** ..... 410  
**CHEMICAL FAMILY:**..... Thermoplastic polymer.  
**CHEMICAL NAME:**..... Blend containing thermoplastic and inorganic microspheres.  
**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>
Sodium borosilicate	50818-87-7	
Formaldehyde polymer with toluene	25155-81-1	< 7%
Isobutane	75-28-5	< 5%
Tris (dimethylaminomethyl) phenol	90-72-2	< 3%
Vinylidene chloride	75-35-4	< 0.3%

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**HMIS Hazard Rating:**    **Health - 2**            **Flammability - 1**            **Reactivity - 0**

**WARNING!** Nuisance dust hazard. Inhalation may be harmful. Eye irritant. Off-white powder.

**PRIMARY ROUTE(S) OF ENTRY:** ..... Inhalation, eye contact, skin contact.

#### POTENTIAL HEALTH EFFECTS:

**ACUTE INHALATION:** ..... May cause irritation to mucous membranes of the respiratory tract.

**CHRONIC INHALATION:**..... May cause respiratory sensitization.

**ACUTE SKIN CONTACT:**..... Irritation. May cause allergic reaction.

**CHRONIC SKIN CONTACT:** ..... May cause sensitization.

**EYE CONTACT:** ..... Irritation. Can be corrosive to eye tissue.

**INGESTION:** ..... Can cause irritation of the gastrointestinal tract.

**SYMPTOMS OF OVEREXPOSURE:** ..... Irritation of the mouth, nose and throat. Irritated and tearing eyes. Dry, itchy and irritated skin.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Allergic conditions. Asthma, dermatitis, and other skin or respiratory conditions.

**4. FIRST AID MEASURES:**

**FIRST AID FOR EYES:** ..... Flush with water for at least 15 minutes. If effects persist, consult a physician.

**FIRST AID FOR SKIN:** ..... Wash with soap and water.

**FIRST AID FOR INHALATION:** ..... Remove to fresh air. If effects persist, consult a physician.

**FIRST AID FOR INGESTION:** ..... Do not induce vomiting. Get medical attention if significant amounts are ingested.

**5. FIRE FIGHTING MEASURES:**

**FLASH POINT:** ..... 188°C (Tag CC).

**EXTINGUISHING MEDIA:** ..... Foam, carbon dioxide (CO<sub>2</sub>) or dry chemical.

**SPECIAL FIRE FIGHTING PROCEDURES:**..... Burning will generate toxic fumes. Use a self-contained breathing apparatus and appropriate protective clothing when fighting fires in an enclosed area. Cool exposed containers with water spray.

**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 tightly closed container. Keep away from open flame.

**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 a liquid-proof glove (such as neoprene or nitrile) to prevent irritation. Barrier creams can be used effectively.

**RESPIRATORY/VENTILATION GUIDELINES:**

Work environments should be maintained below applicable exposure levels 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. A respirator with an organic vapor cartridge may be necessary for certain sensitized individuals.

**ADDITIONAL PROTECTIVE MEASURES:**..... Practice good industrial hygiene by washing with soap and water after each use. Avoid 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**..... Off-white to tan.  
**ODOR**..... Slight ammonia-like odor.  
**BOILING POINT** ..... No data.  
**MELTING POINT/FREEZE POINT** ..... No data.  
**pH** ..... No data.  
**SOLUBILITY IN WATER** ..... Insoluble.  
**SPECIFIC GRAVITY** ..... 0.1  
**BULK DENSITY** ..... 0.41 pounds/gallon.  
**VAPOR PRESSURE**..... Not applicable.  
**VAPOR DENSITY**..... Not applicable.  
**% VOLATILE BY WEIGHT** ..... 0.0 (0.0 g/L).

**10. REACTIVITY:**

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

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

**INCOMPATIBILITIES:** ..... Strong oxidants, especially when hot.

**DECOMPOSITION PRODUCTS:**..... Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and oxides of nitrogen. Corrosive fumes of hydrogen chloride may occur.

**11. TOXICOLOGICAL INFORMATION:**

No specific oral, inhalation or dermal toxicology data is known for this product.

Skin: ..... No Data.  
Oral:..... No Data.  
Inhalation:..... No Data.

This products contains toluene (at < 0.07%) which is a known reproductive toxic.

**CARCINOGENICITY:**

NTP ..... Product not listed.  
IARC ..... Product not listed.  
OSHA ..... Product not listed.

This product contains no known carcinogens in concentrations greater than 0.1%.

**12. ECOLOGICAL INFORMATION:**

Minimal borate content may cause damage to plants, particularly to citrus crops.

**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 D.O.T.  
**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, irritant, possible sensitizer.  
**TSCA STATUS:** ..... All components of this product are included on the TSCA Inventory list.

**SARA TITLE III:**

**SECTION 313 TOXIC CHEMICALS:** ..... None (de minimus).

**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 /CAS NUMBER</u></b>	<b><u>CONCENTRATION</u></b>	<b><u>STATE CODE</u></b>
Acrylonitrile 107-13-1	< 0.003%	<sup>1</sup> CA
Toluene 108-88-3	< 0.07%	<sup>1</sup> CA, PA
Vinylidene Chloride 75-35-4	< 0.3%	PA

<sup>1</sup> 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:** ..... 410-05a

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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