

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 (CO₂) 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 (CO₂) 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.

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

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: 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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