

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. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMS Hazard Rating: **Health - 2** **Flammability - 1** **Physical Hazards - 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.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS#</u>	<u>CONCENTRATION</u>
Sodium metaborate tetrahydrate mixture	7775-19-1	
Formaldehyde polymer with 1,3, dimethylbenzene	26139-75-3	< 7%
Isobutane	75-28-5	< 5%
Tris (dimethylaminomethyl) phenol	90-72-2	< 3%

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 an 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. 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..... 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. STABILITY AND 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.

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

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

DOT

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.

IATA

SHIPPING NAME: Not regulated.
 TECHNICAL SHIPPING NAME: Not applicable.
 HAZARD CLASS: Not applicable.
 U.N. NUMBER: Not applicable.
 PACKING GROUP: Not applicable.

15. REGULATORY INFORMATION

OSHA STATUS: Hazardous. Nuisance dust, irritant, possible sensitizer.
TSCA STATUS: All components are included on the TSCA Inventory list or otherwise comply with TSCA requirements.

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.

COMPONENT NAME /CAS NUMBER	CONCENTRATION	STATE CODE
Acrylonitrile 107-13-1	< 0.003%	¹ CA, MA, PA, NJ
Vinylidene Chloride 75-35-4	< 0.3%	PA, NJ, MA

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.
PREPARED BY: G. M. House
APPROVED BY: G. M. House

TITLE: Health, Safety & Environmental Manager
APPROVAL DATE: May 5, 2011
SUPERSEDES DATE: February 6, 2011
MSDS NUMBER: 410-11b

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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