

MATERIAL SAFETY DATA SHEET

West System Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:..... WEST SYSTEM® 406™ Colloidal Silica.
PRODUCT CODE:..... 406
CHEMICAL FAMILY:..... Silicon.
CHEMICAL NAME:..... Silicon dioxide (amorphous).
FORMULA:..... SiO₂

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

CAUTION May pose a static ignition hazard. Avoid excessive breathing of airborne dust. White, fluffy powder with no odor.

PRIMARY ROUTE(S) OF ENTRY: Inhalation.

POTENTIAL HEALTH EFFECTS:

ACUTE INHALATION:..... If exposure limits are exceeded, the respiratory tract may become irritated. May cause shortness of breath, coughing, and/or chest tightness due to temporarily physically overloading the lungs.

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 irritation, redness and tearing.

INGESTION:..... No known health effects.

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 and respiratory conditions, such as dermatitis and asthma.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS#</u>	<u>CONCENTRATION (%)</u>
Fumed Amorphous Silica	112945-52-5	100

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:..... Greater than 535°F (COC, ASTM D-92).

EXTINGUISHING MEDIA: Water, dry chemical, halon or foam.

SPECIAL FIRE FIGHTING PROCEDURES:..... No specific information.

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)/100°F (38°C)

STORAGE:..... 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 moisture if necessary. 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 White.
ODOR Odorless.
BOILING POINT No data.
MELTING POINT/FREEZE POINT No data.
pH No data.
SOLUBILITY IN WATER Insoluble.
SPECIFIC GRAVITY 2.2
BULK DENSITY 0.33 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: A chemical reaction is possible with strong bases or hydrofluoric acid.

DECOMPOSITION PRODUCTS: Can include carbon monoxide (CO) and carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Oral:..... LD₅₀ >5000 mg/kg (rats)

Inhalation: LD₅₀ > 2.08 mg/L 4hr.

Dermal:LD₅₀ >5000 mg/kg (rabbits)

Data from chronic inhalation of treated and untreated silicas are currently under review.

CARCINOGENICITY:

NTP No.
IARC No.
OSHA No.

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

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**DOT Non-Bulk**

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

ICAO/IATA

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

IMDG

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: Nuisance dust.

TSCA STATUS: All components are listed on TSCA inventory or otherwise comply with TSCA requirements.

Canada WHMIS Classification: Not a WHMIS controlled substance.

CEPA Chemical Inventory Status: All components are listed or are otherwise compliant with CEPA 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**

Amorphous Silica
112945-52-5

STATE CODE

MA, NJ, RI

16. OTHER INFORMATION

REASON FOR ISSUE: Changes made in Sections 3, 11, 14 & 15.

PREPARED BY: G. M. House

APPROVED BY:..... G. M. House
TITLE: Health, Safety & Environmental Manager
APPROVAL DATE: April 26, 2013
SUPERSEDES DATE:..... February 6, 2011
MSDS NUMBER:..... 406-13a

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