

MATERIAL SAFETY DATA SHEET

West System Inc.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM® 552 Blue QA Dye for Hardeners.
PRODUCT CODE: 552
CHEMICAL FAMILY: Alcohol.
CHEMICAL NAME: Azo dye compound dissolved in benzyl alcohol.
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

HMIS Hazard Rating: Health - 2 Flammability - 1 Physical Hazards - 0

WARNING! Severe eye irritant. Causes skin irritation. Exposure to vapors may be harmful. May be harmful if swallowed. Blue liquid with aromatic odor.

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

POTENTIAL HEALTH EFFECTS:

ACUTE INHALATION: Concentrated vapors may cause headache, dizziness and nausea. Overexposure may cause central nervous system depression.

CHRONIC INHALATION: No chronic health hazard information available.

ACUTE SKIN CONTACT: May cause irritation.

CHRONIC SKIN CONTACT: May cause defatting of the skin, resulting in dryness and possible dermatitis.

EYE CONTACT: Severe eye irritation and possible tearing.

INGESTION: Harmful if swallowed.

SYMPTOMS OF OVEREXPOSURE: Headache, dizziness and nausea. Eye irritation. Drying skin.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Dermatitis.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS#</u>	<u>CONCENTRATION (%)</u>
Benzyl alcohol	100-51-6	96.5
Solvent Blue Dye	14233-37-5	3.5

4. FIRST AID MEASURES

FIRST AID FOR EYES: Immediately flush eyes with water for at least 15 minutes. Get medical attention.

FIRST AID FOR SKIN: Flush skin with water. If effects develop and persist, get medical attention.

FIRST AID FOR INHALATION: Immediately remove to fresh air. Get medical attention if effects occur and persist.

FIRST AID FOR INGESTION: Call a physician immediately. Induce vomiting only with the direction of medical personnel. Induce vomiting only if conscious.

5. FIRE FIGHTING MEASURES

FLASH POINT: 210°F (TCC).

EXTINGUISHING MEDIA: CO₂, foam or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Water can be used to cool the fire; for extinguishing, foam or dry chemical are preferred. Avoid flooding which may spread the liquid and fire. Wear a self-contained breathing apparatus and full fire fighting protective clothing. Burning material will produce carbon monoxide (CO) and other potentially toxic vapors including benzaldehyde.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Remove sources of ignition, stop release and provide adequate ventilation. Prevent flow into sewers and public waters. Recover and recycle if possible. Soak up remaining with absorbent material.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (min./max.): 40°F (4°C)/100°F (38°C).

STORAGE: Store as an NFPA Class IIIB liquid. Store away from ignition sources. Do not store in plastic containers other than those made of fluorinated polymers and polypropylene.

HANDLING PRECAUTIONS: Provide ventilation and avoid skin and eye contact.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION GUIDELINES: Chemical splash goggles or face shield.

SKIN PROTECTION GUIDELINES: Use chemical resistant gloves and other impervious clothing to protect against skin contact. Neoprene, nitrile or butyl rubber gloves.

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 respirator with an organic vapor cartridge.

ADDITIONAL PROTECTIVE MEASURES: Avoid breathing concentrated vapors and mist. Practice good industrial hygiene. Wash hands before eating, drinking, smoking or using the toilet facilities. Promptly remove contaminated clothing and launder before reuse. 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: Not established for product as whole. Refer to OSHA's Permissible Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM Liquid.
COLOR Blue.
ODOR Aromatic odor.
BOILING POINT 401°F (205°C)
MELTING POINT/FREEZE POINT 4.5°F (-15°)
pH No data.
SOLUBILITY IN WATER Moderate.
SPECIFIC GRAVITY 1.05
BULK DENSITY 8.76 pounds/gallon.
VAPOR PRESSURE No data.
VAPOR DENSITY 3.7 (air = 1)
% VOLATILE BY WEIGHT 96.25

10. STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: Strong oxidizing agents. May react with strong mineral acids generating heat.

DECOMPOSITION PRODUCTS: Incomplete combustion will produce carbon monoxide (CO) and other potentially toxic vapors.

11. TOXICOLOGICAL INFORMATION

Oral: LD₅₀ = 1,230 mg/kg
 Dermal: LD₅₀ = 1,000 – 5,000 mg/kg (guinea pigs)
 Inhalation: LC₅₀ = 4-hr >5.4 mg/l (practically non-toxic)

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

LC50 Tidewater silversides: 15 mg/l, slightly toxic
 EC50 Daphnia magna: 55 mg/l, slightly toxic
 LC50 Fathead minnows and bluegill sunfish: 10-460 mg/l, moderately toxic

This material is readily biodegraded in both aerobic and anaerobic systems. Do not contaminate any streams, lakes or other natural waterways with this material.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Knowledge of materials reveals that this product is not a hazardous waste in its purchased form as per RCRA criteria, either by characteristics or by listing. However, it is the responsibility of the end user to determine proper disposal methods. Incineration or fuel blending are preferred disposal methods.

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. Irritant.
TSCA STATUS: All components of this product are in compliance with TSCA Inventory requirements.

Canada WHIMIS Classification: D2B

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.

<u>COMPONENT NAME</u> <u>/CAS NUMBER</u>	<u>CONCENTRATION</u>	<u>STATE CODE</u>
Benzyl alcohol 100-51-6	95.75%	MA, PA, NJ

16. OTHER INFORMATION

REASON FOR ISSUE: Changes made in Sections 5, 8, 11, 14 & 15.
PREPARED BY: G. M. House
APPROVED BY: G. M. House

TITLE: Health, Safety & Environmental Manager
APPROVAL DATE: February 6, 2011
SUPERSEDES DATE: January 3, 2008
MSDS NUMBER: 552w-11a

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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