

**Midwest Industrial Supply, Inc.**  
**P.O. Box 8431**  
**Canton, OH 44711**

# SOIL CEMENT®

Dust and Erosion Control Agent

## MATERIAL SAFETY DATA SHEET

Emergency Phone Number: 330-456-3121

### SECTION I -- IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**TRADE NAME:** SOIL-SEMENT®  
**CHEMICAL NAME:** POLYMER EMULSION  
**SYNONYMS:** DUST RETARDANT  
**CHEMICAL FAMILY:** N/A  
**MOLECULAR WEIGHT:** N/A  
**FORMULA:** AQUEOUS ACRYLIC VINYL ACETATE POLYMER EMULSION  
**CAS REGISTRY NO.:** PRODUCT A BLEND - NO NUMBER ASSIGNED

### SECTION II -- COMPOSITION/INFORMATION ON INGREDIENTS

<u>NAME</u>	<u>CAS REG NO.</u>	<u>WT. %</u>
Acrylic & Vinyl Acetate Polymer	Non-hazardous	5-50
Water	7732-18-5	95-50

### SECTION III -- HAZARDS IDENTIFICATION

Acrylic & Polyvinyl Acetate Polymer	Non-hazardous
Water	Non-hazardous

### SECTION IV -- FIRST AID MEASURES

**EYES:** Flush eyes with flowing water at least 15 minutes, get medical attention.  
**INHALATION:** Move subject to fresh air.  
**SKIN:** Flush with large amount of water or wash with soap and water.  
**INGESTION:** Give water to drink. Call a physician  
**NEVER GIVE FLUIDS OR INDUCE VOMITING. IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.**

### SECTION V -- FIRE FIGHTING MEASURES

**FLASH POINT (TEST METHOD):** Non-Combustible  
**AUTOIGNITION TEMPERATURE:** N/A  
**EXTINGUISHING MEDIUM:** N/A  
**SPECIAL FIREFIGHTING PROCEDURES:** N/A  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Material can splatter above 212°F. Dried polymer film can burn but will not support combustion.

### SECTION VI - ACCIDENTAL RELEASE MEASURES

#### SPILL AND LEAK PROCEDURES:

Dike and control spill. Transfer liquid to containers for recovery or disposal.  
Keep spills out of sewers and open bodies of water.

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### SECTION VII -- HANDLING AND STORAGE

**STORAGE:** Keep in a cool, dry, ventilated storage area and in closed containers. Minimize contact with the air to prevent microorganism contamination and reduce the formation of skins on the surface. Optimum storage temperatures: 55°F (12°C – 32°C). **KEEP FROM FREEZING**

**HANDLING:** Handle in a well-ventilated workspace.

### SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** None required if good ventilation is maintained.  
**VENTILATION:** Mechanical exhaust at point of contaminant.  
**EYE PROTECTION:** Chemical splash goggles recommended.  
**PROTECTIVE CLOTHING:** Impervious gloves recommended.  
**OTHER:** Under normal handling conditions, the risk of exposure to residual monomer is negligible.

### SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

**BOILING/MELTING POINT @ 760 mm Hg:** 212°F  
**VAPOR PRESSURE mm Hg @ 20° C:** 17  
**SPECIFIC GRAVITY OR BULK DENSITY:** 1.01 to 1.15  
**SOLUBILITY IN WATER:** Dilutable  
**APPEARANCE:** Milky White Liquid  
**ODOR:** Characteristic Acrylic odor  
**pH:** 4.0 to 9.5

### SECTION X -- STABILITY AND REACTIVITY

**STABILITY:** Stable  
**CHEMICAL INCOMPATIBILITY:** No hazardous reactions are expected to occur under normal industrial conditions.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide and water.  
**HAZARDOUS POLYMERIZATION:** Does not occur  
**CONDITIONS TO AVOID:** N/A  
**CORROSIVE TO METAL:** No  
**OXIDIZER:** No

### SECTION XI -- TOXICOLOGICAL INFORMATION

#### EFFECTS OF OVEREXPOSURE

**INHALATION:** Vapor from stored, undiluted product can cause headache and nausea.  
**SKIN:** Stored, undiluted product is slightly irritating to skin.  
**EYES:** Slightly irritating to eyes.  
**INGESTION:** May be irritating to digestive tract.

**SECTION XII -- ECOLOGICAL INFORMATION**

Toxicological evaluation of Soil Sement® utilized EPA methods for both acute and chronic toxicity determination for aquatic organisms. LC<sub>50</sub> values were determined for each of the species. The table below contains a synopsis of the results.

**Soil Sement Aquatic Toxicity Test Results**

\*Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to Freshwater and Marine Organisms, EPA/600/4-90/027F.

\*Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-91/002.

\*Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Marine and Estuarine Organisms, EPA/600/4-91/003.

	<b>Ceriodaphnia dubia</b>	<b>Fathead minnow</b>	<b>Americamysis bahia</b>	<b>Rainbow trout</b>
<b>ACUTE/SURVIVAL (mg/L)</b>				
LC50	>1000	>1000	>1000	320
NOEC	1000	1000	1000	
LOEC	>1000	>1000	>1000	
<b>CHRONIC/SURVIVAL (mg/L)</b>				
LC50	>1000	>1000	>1000	510
NOEC	1000	1000	1000	340
LOEC	>1000	>1000	>1000	700
<b>CHRONIC/GROWTH/ REPRODUCTION (mg/L)</b>				
LC50	>1000	>1000	>1000	540
NOEC	1000	1000	1000	340
LOEC	>1000	>1000	>1000	700

See attached test results:

1. ABC Laboratories, Inc. Americamysis bahia, Fathead minnow, Ceriodaphnia dubia.
2. BAR Invironmental, Inc. Rainbow trout
3. EnviroScience Inc. Rainbow Trout, Chronic (New Data)

LC50 - Lethal Concentration, 50%

NOEC - No Observable Effects Concentration

LOEC - Lowest Observable Effects Concentration

Comparison of the EPA guidelines to the LC<sub>50</sub> levels of all species show that Soil Sement® is practically non-toxic to all species.

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### SECTION XIII -- DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL METHOD:

Coagulate the emulsion by the stepwise addition of ferric chloride and lime or the addition of sand or other absorbent material. Remove the clear supernatant liquid and flush to a chemical sewer or landfill. Incinerate solids and the contaminated diking material according to local, state and federal regulations.

#### CONTAINER DISPOSAL:

Do not re-use containers. Do not weld on metal containers.

### SECTION XIV -- TRANSPORTATION INFORMATION

<b>D.O.T. PROPER SHIPPING NAME (49CFR172.101):</b>	None
<b>HAZARDOUS SUBSTANCE (40CFR116):</b>	N/A
<b>REPORTABLE QUANTITY (RQ):</b>	N/A
<b>D.O.T. HAZARD CLASSIFICATION (49CFR172.101):</b>	Non-regulated
<b>D.O.T. PLACARDS REQUIRED:</b>	None
<b>POISON CONSTITUENT (49CFR173.343):</b>	N/A
<b>BILL OF LADING DESCRIPTION:</b>	Liquid plastic, NOS
<b>C NO.:</b>	N/A
<b>UN/NA CODE:</b>	N/A

### SECTION XV-- REGULATORY INFORMATION

**SOIL-SEMENT® is not a restricted article according to the Department of Transportation and International Air Transport Association regulations.**

<b>EPA SARA Title III hazard class:</b>	None
<b>OSHA HCS hazard class:</b>	Non-OSHA hazardous (29CFR1910.1200)
<b>Toxic Chemicals present in quantities greater than the "de minimus" level are:</b>	None
<b>TSCA:</b>	All ingredients are on the TSCA (Toxic Substance Control Act) inventory or are not required to be listed on the TSCA inventory.
<b>California Proposition 65:</b>	This product contains no trace amount of chemical(s) know to the state of California to cause cancer of birth defects.
<b>Canadian DSL:</b>	All ingredients are in the Canadian DSL (Domestic Substance List) or are not required to be on the list.
<b>Canadian WHMIS:</b>	This product is not a "controlled product" under the Canadian Workplace Hazardous Material Information System (WHMIS)

### SECTION XVI -- OTHER INFORMATION

#### ABBREVIATIONS AND SYMBOLS:

N.D. - Not Determined  
< - LESS THAN

N.A. - Not Applicable  
> - MORE THAN

N.T. - Not Tested