

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

Emergency Phone Number: 330-456-3121

S O I L - S E M E N T[®]
ENGINEERED FORMULA

Dust and Erosion Control Agent

MATERIAL SAFETY DATA SHEET

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

TRADE NAME: SOIL-SEMENT[®] ENGINEERED FORMULA
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.

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

Emergency Phone Number: 330-456-3121

S O I L S E M E N T[®]
ENGINEERED FORMULA

Dust and Erosion Control Agent

MATERIAL SAFETY DATA SHEET

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.

SECTION VII -- HANDLING AND STORAGE

STORAGE: Keep in a cool, dry, ventilated storage area and in closed containers. Avoid freezing temperatures. Minimize contact with the air to prevent microorganism contamination and reduce the formation of skins on the surface.
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.

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

Emergency Phone Number: 330-456-3121

S O I L S E M E N T[®]
ENGINEERED FORMULA

Dust and Erosion Control Agent

MATERIAL SAFETY DATA SHEET

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: normal	No hazardous reactions are expected to occur under 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.

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

Emergency Phone Number: 330-456-3121

S O I L S E M E N T[®]
ENGINEERED FORMULA

Dust and Erosion Control Agent

MATERIAL SAFETY DATA SHEET

<u>NAME</u>	<u>OSHA</u>		<u>ACGIH</u>	
	TWA	STEL	TWA	STEL
Acrylic & polyvinyl Acetate Polymer	None	None	None	None
Water	None	None		None

SECTION XII -- ECOLOGICAL INFORMATION

Toxicological evaluation of Soil Sement[®] Engineered Formula utilized EPA methods for both acute and chronic toxicity determination for aquatic organisms. LC₅₀ values were determined for each of the species. The table below contains a synopsis of the results.

Soil Sement Engineered Formula 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.

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

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

Emergency Phone Number: 330-456-3121

S O I L - S E M E N T[®]
ENGINEERED FORMULA

Dust and Erosion Control Agent

MATERIAL SAFETY DATA SHEET

LC50 - Lethal Concentration, 50%
NOEC - No Observable Effects Concentration
LOEC - Lowest Observable Effects Concentration

Comparison of the EPA guidelines to the LC₅₀ levels of all species show that Soil Sement[®] Engineered Formula is practically non-toxic to all species.

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

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

SECTION XV-- REGULATORY INFORMATION

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

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

Emergency Phone Number: 330-456-3121

S O I L S E M E N T[®]
ENGINEERED FORMULA

Dust and Erosion Control Agent

MATERIAL SAFETY DATA SHEET

EPA SARA Title III hazard class:

None

OSHA HCS hazard class:

Non-OSHA hazardous (29CFR1910.1200)

Toxic Chemicals present in quantities greater than the “de minimus” level are:

None

TSCA:

All ingredients are on the TSCA (Toxic Substance Control Act) inventory or are not required to be listed on the TSCA inventory.

California Proposition 65:

This product contains no trace amount of chemical(s) know to the state of California to cause cancer or birth defects.

Canadian DSL:

All ingredients are in the Canadian DSL (Domestic Substance List) or are not required to be on the list.

Canadian WHMIS:

This product is not a “controlled product” under the Canadian Workplace Hazardous Material System (WHMIS)

Information

SECTION XVI -- OTHER INFORMATION

ABBREVIATIONS AND SYMBOLS:

N.D. - Not Determined

N.A. - Not Applicable

N.T. - Not Tested

< - LESS THAN

> - MORE THAN