

**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<sup>®</sup>**  
**ENGINEERED FORMULA**

Dust and Erosion Control Agent

**MATERIAL SAFETY DATA SHEET**

---

Please replace any other MSDS for this product with the attached MSDS.

**PRODUCT:** SOIL-SEMENT<sup>®</sup> ENGINEERED FORMULA dust and erosion control agent

**MSDS NUMBER:** 2118

**UPDATED EFFECTIVE DATE:** September 8, 2000

**PREVIOUS VERSION MSDS NUMBER:** none

**PREVIOUS VERSION DATE:** N/A

**REASON FOR UPDATE:** New Product. Modification of SOIL-SEMENT<sup>®</sup> for highly critical applications of intense use or conditions.

**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<sup>®</sup>**  
**ENGINEERED FORMULA**

Dust and Erosion Control Agent

**MATERIAL SAFETY DATA SHEET**

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

**TRADE NAME:** SOIL-SEMENT<sup>®</sup> 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<sup>®</sup>**  
**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.

**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<sup>®</sup>**  
**ENGINEERED FORMULA**

Dust and Erosion Control Agent

**MATERIAL SAFETY DATA SHEET**

**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.

**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<sup>®</sup>**  
**ENGINEERED FORMULA**

Dust and Erosion Control Agent

**MATERIAL SAFETY DATA SHEET**

**INGESTION:** May be irritating to digestive tract.

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

**SECTION XII -- ECOLOGICAL INFORMATION**

Animal toxicity studies on blended SOIL-SEMENT<sup>®</sup> ENGINEERED FORMULA have not been carried out because we believe the fish toxicity studies done on the blend demonstrate it is as non-toxic as the individual emulsions which go into the blend. TABLE #1 gives the results of our fish toxicity tests.

In summary, these data show that the LC<sub>50</sub> of SOIL-SEMENT<sup>®</sup> ENGINEERED FORMULA on goldfish is somewhere above 12,500 ppm. This is extremely low toxicity, especially in view of the legal requirement that chemicals must be labeled "toxic to fish" only if their LC<sub>50</sub> is less than 1.0 ppm.

**TABLE I**  
**FISH TOXICITY STUDIES**

EMULSION NUMBER	TYPE OF FISH	HOURS	LC <sub>50</sub> PPM
C	Rainbow Trout	24	10,000
C	Rainbow Trout	96	8,950
C	Bluegill Sunfish	24	10,000
C	Bluegill Sunfish	96	5,640
C	Goldfish	24	4,200
H	Goldfish	24	7,500
G	Goldfish	24	10,000
D	Goldfish	24	13,400
F	Goldfish	24	13,400
SOIL-SEMENT <sup>®</sup>	Goldfish	24	12,500 - 25,000
SOIL-SEMENT <sup>®</sup>	Goldfish	48	12,500 - 25,000
SOIL-SEMENT <sup>®</sup>	Goldfish	72	12,500 - 20,000
B	Goldfish	24	24,000
E	Goldfish	24	24,000

The 48 hour LC<sub>50</sub> for Daphnia Magna based on nominal test concentrations and mortality at the end of testing was calculated to be 3,482.8 parts per million (ppm).

**SECTION XIII -- DISPOSAL CONSIDERATIONS**

**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<sup>®</sup>**  
**ENGINEERED FORMULA**

Dust and Erosion Control Agent

**MATERIAL SAFETY DATA SHEET**

**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<sup>®</sup> ENGINEERED FROMULA is not a restricted article according to the Department of Transportation and International Air Transport Association regulations.**

**EPA SARA Title III hazard class:** None  
**OSHA HCS hazard class:** Non-OSHA hazardous (29CFR1910.1200)  
**EPA SARA Title III Section 313 (40CFR372)  
Toxic Chemicals present in quantities greater  
than the "de minimus" level are:** None

**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<sup>®</sup>**  
**ENGINEERED FORMULA**

Dust and Erosion Control Agent

***MATERIAL SAFETY DATA SHEET***

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

N.A. - Not Applicable

N.T. - Not Tested

< - LESS THAN

> - MORE THAN