

SAFETY DATA SHEET

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

TRADE NAME: Soil-Sement® EF69PB (Series)
MANUFACTURER: Midwest Industrial Supply, Inc
 1101 3rd Street SE
 Canton, OH 44707
EMERGENCY PHONE NUMBER: 330-456-3121
RECOMMENDED USE: Soil Stabilizing Agent; Dust Suppressant; Aggregate Pile Sealer
CHEMICAL NAME: Aqueous vinyl acrylic polymer emulsion
SYNONYMS: None

SECTION II -- HAZARDS IDENTIFICATION

CLASSIFICATION: Skin Sensitizer, 1
SIGNAL WORD: Warning
HAZARD STATEMENT(S): May cause an allergic skin reaction

Pictograms



PRECAUTIONARY STATEMENT(S):

- Keep in closed containers to minimize evaporation or water.
- Avoid breathing dust or fumes
- Wear protective gloves
- Contaminated work clothing should not be allowed out of the workplace
- Get medical advice if you feel unwell
- If ON SKIN wash with plenty of soap and water
- If skin irritation or rash occurs Get medical attention
- Wash contaminated clothing before reuse
- Dispose of containers to an approved waste disposal facility

OTHER HAZARDS: None

SECTION III -- COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	WT %
Vinyl acrylic polymer	trade secret	< 60%



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Water 7732-18-5 >40%

SECTION IV -- FIRST AID MEASURES

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

SECTION V -- FIREFIGHTING MEASURES

EXTINGUISHING MEDIUM: Use extinguishing measures that are appropriate for circumstances and surrounding environment. Dry chemical, CO2, alcohol resistant foam.

SPECIAL FIREFIGHTING PROCEDURES: Use of water spray may be insufficient when fire fighting.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material can splatter above 212°F. Dried polymer film can burn but will not support combustion.

SPECIAL HAZARDS: None

RECOMMENDATION TO FIREFIGHTERS ON SPECIAL PROTECTIVE EQUIPMENT OR PRECAUTIONS:
As in any fire, wear self contained breathing apparatus (SCBA) pressure demand. MSHA/NIOSH approved and full face gear

SECTION VI -- ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use proper personal protective equipment.

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. Use good industrial hygiene practices.

SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION



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VENTILATION:	Mechanical exhaust at point of contaminant
RESPIRATORY PROTECTION:	None required if good ventilation is maintained.
EYE PROTECTION:	Chemical splash goggles recommended
PROTECTIVE CLOTHING:	Impervious gloves recommended

SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Odor:	Characteristic sweet odor
Vapor Density:	N/D
Solubility in Water:	Dilutable
Relative Density:	1.01 - 1.12
Melting/Freezing Point:	32 ⁰ F
VOC Content:	0%
Viscosity:	50 - 500 cps at 22°C
Flashpoint:	Emulsion, >210°F
Flammable Limits LEL:	N/D
Flammable Limits UEL:	N/D
Odor Threshold:	N/D
Initial Boiling Point/Range:	N/D
Vapor Pressure:	N/D
Evaporation Rate:	N/D
pH:	4-9.5
Octanol/Water Coefficient:	N/D
Decomposition Temperature:	N/D
Flammability (solid/gas):	N/A
Auto Ignition Temperature:	N/A

SECTION X -- STABILITY AND REACTIVITY

REACTIVITY:	None
CHEMICAL 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:	Keep from freezing

SECTION XI -- TOXICOLOGICAL INFORMATION



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EFFECTS OF OVEREXPOSURE

INHALATION:	N/D
SKIN:	N/D
EYES:	N/D
INGESTION:	N/D
CARCINOGENICITY:	N/D
GERM CELL MUTAGENICITY:	N/D
REPRODUCTIVE TOXIN:	N/D

SECTION XII -- ECOLOGICAL INFORMATION

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

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.

	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

LC50 - Lethal Concentration, 50%



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SECTION XIII -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Consult your local authorities for regulations. Preferred waste management: recycle or reuse, incinerate with energy recovery, disposal in a licensed facility. Disposal facility should be compliant with state, local and federal government regulations.

SECTION XIV -- TRANSPORTATION INFORMATION

DOT HAZARDOUS MATERIAL DESCRIPTION: None
PROPER SHIPPING NAME: Soil-Sement® EF69PB
UN NUMBER: N/A
HAZARD CLASS/PACKAGING GROUP: None
LABELS REQUIRED: None

SECTION XV -- REGULATORY INFORMATION

NFPA RATING:	Health:	1	HMIS RATING:	Health:	1
	Flammability:	0		Flammability:	0
	Instability:	0		Physical Hazard:	0
				PPE:	B

Toxic Chemicals present in quantities greater than the "de minimus" level are: None
OSHA HCS hazard class: Skin sensitizer, 1
EPA SARA Title III Section 313 (40CFR372): None
TSCA: all components listed or exempt
Canadian WHIMIS: N/A

SECTION XVI -- OTHER INFORMATION

LATEST REVISION: 3-Nov-16
ABBREVIATIONS AND SYMBOLS:

N.D. Not Determined N.A. Not Applicable N.T. Not Tested
< Less Than > More Than



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RECOMMENDED USE: Dust Suppressant; Soil Stabilizing Agent; Aggregate Pile Sealer
CHEMICAL NAME: Aqueous styrene butadiene polymer emulsion
SYNONYMS:

SECTION II -- HAZARDS IDENTIFICATION

CLASSIFICATION: None
SIGNAL WORD: None
HAZARD STATEMENT(S): None
PRECAUTIONARY STATEMENT(S): Wash hands and exposed areas while product is still in liquid form to minimize film formation on skin.
Keep in closed containers to minimize evaporation or water.
OTHER HAZARDS: None

SECTION III -- COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	WT %
Styrene Butadiene polymer	Non-hazardous	5-50%
Water	7732-18-5	95-50%
Ammonium hydroxide	1336-21-6	<0.1%

SECTION IV -- FIRST AID MEASURES

INHALATION: Move subject to fresh air.
SKIN: Flush with large amounts of water or wash with soap and water.
EYES: Flush eyes
INGESTION: Give water to drink. Call a physician.
NEVER GIVE

Ammonium hydroxide exposure may cause upper respiratory tract irritation and eye damage.

RECOMMENDATION TO FIREFIGHTERS ON SPECIAL PROTECTIVE EQUIPMENT OR PRECAUTIONS: None

SECTION V -- FIREFIGHTING MEASURES



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EXTINGUISHING MEDIUM:	water, dry foam, chemical foam, carbon dioxide, alcohol resistant foam
SPECIAL FIREFIGHTING PROCEDURES:	wear protective eyewear, gloves, clothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Material can splatter above 212°F. Dried polymer film can burn but will not support combustion. May release irritating vapor or fumes.
SPECIAL HAZARDS:	None

SECTION VI -- ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Use proper personal protective equipment.
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. Follow good industrial hygiene procedures.

SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION

CONTROL PARAMETERS:	1336-21-6. Ammonium hydroxide	ACGIH TLV 17mg/M ³ OSHA PEL 35mg/M ³ OSHA TWA 25ppm (18mg/M ³) ST 35ppm (27mg/M ³) ACGIH TWA 25ppm (18mg/M ³) ST 35ppm (27mg/M ³)
VENTILATION:	Mechanical exhaust at point of contaminant	
RESPIRATORY PROTECTION:	None required if good ventilation is maintained.	
EYE PROTECTION:	Chemical splash goggles recommended	
PROTECTIVE CLOTHING:	Impervious gloves recommended	

SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Odor:	Characteristic sweet odor



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Vapor Density:	N/D
Solubility in Water:	Dilutable
Relative Density:	1.00-1.05
Melting/Freezing Point:	N/D
VOC Content:	0%
Viscosity:	50 - 500 cps at 22°C
Flashpoint:	Emulsion, >210°F
Flammable Limits LEL:	N/D
Flammable Limits UEL:	N/D
Odor Threshold:	N/D
Initial Boiling Point/Range:	100 C (212 F)
Vapor Pressure:	17 mm Hg @20C
Evaporation Rate:	N/D
pH:	6-9
Octanol/Water Coefficient:	N/D
Decomposition Temperature:	N/D
Flammability (solid/gas):	N/A
Auto Ignition Temperature:	N/A

SECTION X -- STABILITY AND REACTIVITY

REACTIVITY:	None
CHEMICAL 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

SECTION XI -- TOXICOLOGICAL INFORMATION

ORAL 1336-21-6, ammonium hydroxide LD50 350mg/kg (rat)

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.
CARCINOGENICITY:	N/D



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GERM CELL MUTAGENICITY: N/D
REPRODUCTIVE TOXIN: N/D

SECTION XII -- ECOLOGICAL INFORMATION

Soil Sement EF89PB is not expected to cause any ecological problems.

SECTION XIII -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Consult your local authorities for regulations. Preferred waste management: recycle or reuse, incinerate with energy recovery, disposal in a licensed facility. Disposal facility should be compliant with state, local and federal government regulations.

SECTION XIV -- TRANSPORTATION INFORMATION

DOT HAZARDOUS MATERIAL DESCRIPTION: None
PROPER SHIPPING NAME: Soil-Sement® EF89PB
UN NUMBER: Not regulated
HAZARD CLASS/PACKAGING GROUP: Not regulated
LABELS REQUIRED: None

SECTION XV -- REGULATORY INFORMATION

NFPA RATING:	Health:	1	HMIS RATING:	Health:	1
	Flammability:	0		Flammability:	0
	Instability:	0		Physical Hazard:	0
				PPE:	A

Toxic Chemicals present in quantities greater than the "de minimus" level are: None
OSHA HCS hazard class: Non-hazardous
EPA SARA Title III Section 313 (40CFR372): None
TSCA: all components listed or exempt
Canadian WHIMIS: N/A

SECTION XVI -- OTHER INFORMATION

LATEST REVISION: 29-May-15



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