



M10+50-2001+12 BLACK MILITARY SOIL STABILIZER

Material Safety Data Sheet (MSDS)

MANUFACTURER'S INFORMATION

EMERGENCY PHONE NUMBERS: 772-335-8225 – 800-775-9474

ENVIROSEAL CORPORATION

1019 SE Holbrook Court, Port St. Lucie, FL 34952

SECTION I - M-10+50 MILITARY SOIL STABILIZER

Chemical Name / Chemical Family: Polymeric Proprietary Inorganic Acrylic Co-Polymers
Transportation Classification: Item No. 149980 sub 2 / Class 55, Non HAZ-MAT

ECCN Number EAR-99

Harmonized Code Schedule B No. 3906900000

SECTION II - HAZARDOUS INGREDIENTS

SARA Title III page 2 "This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40 CFR 372

Hazardous

Components	%	TLV (UNITS)	PRODUCT CAS No.
Proprietary Co-Polymer:	50-51	None Established	Not Required
Individual Residual			
Monomers	<2.1	None Established	Not Required
Surfactant (Proprietary)	1.0%	None Established	Not Required
Aqua Ammonia	0.1		1336-21-6
Water:	46-49		7732-18-5
Carbon Black	.01-15	None Established	1333-86-4

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

pH	8.4
Boiling Point:	greater than 100 c / 212 f
Melting Point:	-3c can be freeze thawed
Specific Gravity:	1.17
Vapor Pressure: (mm Hg)	17.mm Hg @ 20 ^o C/68f Water
Vapor Density (air=1)	< 1
Evaporation Rate: (Bac=1)	< 1 Water
Appearance:	BLACK
State:	Liquid
Solubility in Water:	Dilutable

SECTION IV - FIRE AND EXPLOSION DATA

Reactivity in Water:	None
NFPA Code:	000
Flash Point:	None. Will not burn
Extinguisher Media:	Determined by surrounding materials, CO2, Foam, Dry Powder, Water Spray or Fog.
Special Fire Fighting Procedures:	None
Flammable Limits:	
(In air % by volume):	Not applicable
Auto Ignition Temperature:	None
Unusual Fire and Explosion Hazards:	Material can splatter above 212/ 100c, Polymer film can burn

SECTION V - PHYSICAL HAZARDS

Stability:	Stable
Conditions to Avoid:	Heat in excess of 100c / 212f, and temperatures below -20f
Incompatibility	Oxidizers or Oxidizing Materials, Hazardous Thermal Decompression from Fire, Smoke, Carbon Dioxide Products and Carbon Monoxide.
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid:	None

SECTION VI - HEALTH HAZARDS

Threshold Limit Value:	None Established
Effects of Overexposure:	None Established
Toxicity Information:	Non Toxic
OSHA Permissible Exposure Limit:	None
ACGIH Threshold Limit Value:	None
Other Exposure Limit Used:	None Required
Carcinogenicity:	N.T.P., Not Established.
Arc Monographs,	Not Established
OSHA Regulated:	No

REACTIVITY INFORMATION

Instability: This material is considered stable; however, avoid temperatures above 177C/350F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature. Hazardous Decomposition Products: Thermal decomposition may yield acrylic monomers. Hazardous Polymerization: Product will not undergo polymerization. Incompatibility There are no known materials which are incompatible with this product.

HEALTH EFFECTS FROM OVER EXPOSURE

Primary Routes of Exposure: **Inhalation - Eye Contact - Skin Contact**
Inhalation: Inhalation of vapor or mist can cause the following: - headache
nausea - Irritation of nose, throat and lung
Eye Contact: Direct contact with material can cause a slight irritation
Skin Contact: Prolonged or repeated skin contact can cause a slight skin Irritation

TOXICITY INFORMATION

Acute Data The Information shown in the **HEALTH EFFECTS FROM OVEREXPOSURE** Section is based on the toxicity profiles for a number of acrylic emulsions that are compositionally similar to this product. Typical data are:

Oral LD50 - rat ;	>5000 mg/kg
Dermal LD50 - rabbit:	>5000 mg/kg
Skin irritation - rabbit:	practically non-irritating
Eye irritation - rabbit:	Inconsequential irritation
The aquatic 7-day LC50 for daphnids*	was greater than 800 mg/L.
The aquatic 7-day LC50 for trout was greater than	1000 mg/L.
pH value	9.27
BOD value	4940 mg/l.
COD value	952,000 mg/L

* invertebrate species

The LC50 values are approximately 10-fold higher than the EPA's lowest toxicity criteria, thus results obtained for Enviroseal M10+50 are approximately 10-fold less toxic than materials which minimally meet the 100 mg/L, "practically non-toxic", criteria established by the EPA.

The data are consistent with those for compositionally similar acrylic emulsions. The data do not suggest there is a concern for adverse environmental impact from proper use or even inadvertent misuse of Enviroseal M10+50.

SECTION VII - EMERGENCY FIRST AID PROCEDURES 11

Eye Contact:	Wash affected area with copious amount of fresh water for about 15 minutes. If irritation occurs, call physician.
Ingestion:	If swallowed, give 2 glasses of fresh water to drink, consult a physician. Never give anything by mouth to an unconscious person.
Skin Contact:	Wash affected area with large amounts of soap and water.
Inhalation:	Move patient to fresh air.

SECTION VIII - SPECIAL PROTECTION INFORMATION

NOTE: Safe handling of any chemical is always recommended, the following procedures are recommended for this product as well.

Respiratory Protection:	None
Ventilation:	Fresh Air
Protective Gloves:	Rubber, may be cleaned by washing off with mild soap & water
Eye Protection:	Splash goggles, see section VII for skin / ingestion information
Other Protective	Rinse product out of standard work clothes
Clothing or Equipment:	with water, alternatively use rubber apron or plastic suit.

SECTION IX - SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

Precautions to be Taken in Handling: Keep drums tightly capped
Precautions to be taken in Storage: NONE
in Case of Accidental Spillage: Flush spill area with plenty of water. Follow local State and Federal guidelines for accidental spillage.

SECTION X - WASTE DISPOSAL PROCEDURE

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and Federal regulations.

ADDITIONAL INFORMATION

US DOT SHIPPING NAME: Enviroseal M-10+50 SOIL STABILIZER
MSDS NON-REGULATED
Packaging Size: 55 Gallon Drum (208 liter), 275 gallon totes (1,039.5 ltr)
5 Gallon Pails (19 Liters)
Mil Spec Flexi tanks 54,000 lbs/ 24,650 kg, packed into a 20' sea container

The information contained herein relates only to the specific material identified. Enviroseal believes that such information is accurate and reliable as of the date on this **Material Safety Data Sheet**. No representation, guarantee or warranty, express or implied is made as to the accuracy, reliability or completeness of the information. Enviroseal urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

Thomas H. Stevens, President

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