

# EC46<sup>®</sup>

## Polymer Suppressant/ Soil Stabilization

EC46<sup>®</sup> is an environmentally safe polymer emulsion blend that is an excellent dust suppressant. Effective and compatible virtually any surface, EC46<sup>®</sup> creates a bond which is resistant to both wind and rain. White at the time of application, EC46<sup>®</sup> dries to a clear coating and the surface will retain its natural appearance.



### Recommended Applications

- \*Fly Ash & Bottom Ash Ponds
- \* Slope & Shoulder Stabilization
- \* Coal Handling Systems
- \* Haul Roads
- \* Tank Trails
- \* Golf Cart Paths
- \* Walking Paths
- \* Mine Tailings
- \* Storage Piles
- \* Storage Areas
- \* Open Areas
- \* Parking Lots
- \* Aircraft Runways
- \* Helicopter Landing Pads
- \* Military Trails



Please contact your SynTech service representative for more product benefits and advantages!

**SynTech Products Corporation; We manufacture solutions!**  
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## Technical Data

### EC-46 LIFE STUDIES

	Fathead Minnow	Rainbow Trout	CerioDaphnia Dubai
<b>(mg/L) Survival/Chronic</b>			
LC50	>2000	>500	>2000
<b>(mg/L) Survival / Acute</b>			
LC50	>2000	>300	>2000
<b>(mg/L) Chronic / Growth / Reproduction</b>			
LC50	>2000	>500	>2000

LC50 Levels of the above species dictate that EC-46 is non-threatening compared to EPA guidelines

### EC-46 TCLP

PARAMETER	LEVEL OF DETECTION	RESULT
	(mg / L)	(mg / L)
Arsenic	0.005	BDL
Barium	0.25	BDL
Cadmium	0.01	BDL
Chromium	0.05	BDL
Lead	0.05	BDL
Mercury	0.001	BDL
Nickel	0.025	BDL
Selenium	0.005	BDL
Silver	0.025	BDL
Heptachlor	0.001	ND
Heptachlor Epoxide	0.001	ND
Chlordane	0.002	ND
Benzene	0.005	BDL
Carbon Tetrachloride	0.005	ND
Chloroform	0.005	ND
1,4-Dichlorobenzene	0.005	ND
1,1-Dichlorobenzene	0.005	ND
1,2-Dichloroethane	0.005	ND
Hexachlorobenzene	0.1	ND
Hexachloroethane	0.1	ND
Methyl Ethyl Keytone	0.1	ND
Nitrobenzene	0.1	ND
Pentachlorophenol	0.1	ND

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## Application Guidelines/ Rates

EC46<sup>®</sup> is a polymer-based emulsion used primarily to stabilize all soils from dust and erosion. It is specifically engineered for ease of use for large commercial projects down to smaller residential applications. It can be as simple to apply as watering the ground. Furthermore, EC46<sup>®</sup> is designed to work its way down into the soil to maximize the penetration depth. The result is a thicker protective barrier with a more rigid and stable base. Once cured, EC46<sup>®</sup> becomes completely transparent, leaving the natural landscape to appear untouched. EC46<sup>®</sup> results are based on the application rate used. Light applications can create a temporary surface crust that is permeable by water and is useful for dust control needs. Heavy applications can generate results similar to the qualities of cement. Most importantly, EC46<sup>®</sup> is a truly biodegradable product that is environmentally safe.

### Dilution & Technique

EC46<sup>®</sup> is infinitely miscible with water. Typical dilution rates will vary from 1:1 to 1:20 parts EC46<sup>®</sup> to water. Dilution will be determined by soil type, desired crust, desired penetration, desired longevity, and application method. Dilution of material aides in coverage and penetration only. EC46<sup>®</sup> can be applied topically through any liquid spray equipment or by hand trough a hose. EC46<sup>®</sup> can also be process/ mixed into the surface by mechanical methods.

### Typical Application Rates

Topical Application	Concentrate Gallons/ YD <sup>2</sup>	Concentrate Gallons/ Acre
Fly Ash Capping	0.025–0.15	121–726
Stockpile Sealing	0.05–0.10	242–484
Landfill Capping	0.025–0.125	121– 605
Heavy Use Roadways	0.10–0.30	484–1452
Light Use Roadways	0.05– 0.15	242– 725
Heavy Use Parking Lots	0.10–0.25	484– 1210
Light Use Parking Lots	0.05–0.15	242-725
Open Area- No Traffic	0.015–0.05	73- 242
Coal Rail Car Capping	0.01- 0.05	49–242
Walking Paths	0.01–0.10	49- 484
Golf Cart Paths	0.10- 0.20	484–968
Aircraft Runway	0.15–0.30	726- 1452
Helicopter Landing Pads	0.15- 0.25	726– 1210

Ranges Based on Desired Period of Control/ Durability of Crust

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