



# EnviroClear

*Dust Suppressant*

## The water conserving solution.

### BENEFITS

- *Easy to Apply*
- *Low Application Rates*
- *Creates a Wetter Surface*
- *Reduces Surface Tension*
- *Perfect for Haul Roads*

### APPLICATIONS

*Haul Roads  
Construction Sites  
Mine Sites  
Excavation & Grading  
And More ...*

EnviroClear is a highly concentrated biodegradable blend of organic wetting agents which sharply reduce the surface tension of water at very low concentrations, thereby providing excellent dust suppression by allowing deeper penetration of the water into the substrate. Water has a high surface tension which makes it inefficient for wetting surfaces that contain high amounts of clay or fine dust particles. EnviroClear significantly improves the ability of water to overcome the surface tension and penetrate deeper. EnviroClear is formulated with a constituent which provides a residual effect after the point of application, thereby allowing for lower usage rates of water and product with continued use. Water alone is the most commonly-used dust suppression worldwide. While water is becoming even more scarce, simply adding a few gallons of EnviroClear to your water truck will save you and our environment significant amounts of water.



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## Application Rates & Techniques

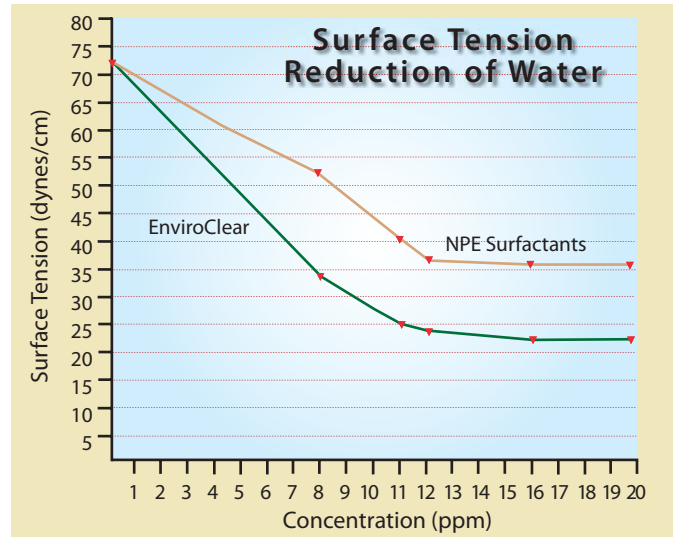
### SURFACE TENSION & WETTING

Fluid surface tension is the tangential force that keeps a fluid together at the air/fluid interface. It is the intermolecular force of attraction between adjacent molecules, expressed in force per unit width, as dynes/centimeter.

As water beads on a leaf, surface tension gives the near spherical shape because a sphere has the smallest possible surface area to volume ratio. Water has a high surface tension in the range of 72 dynes/centimeter.

Wetting is the contact between a liquid and a solid surface, resulting from intermolecular interactions when the two are brought together. The amount of wetting depends on the energies (or surface tensions) of the interfaces involved such that the total energy is minimized.

With EnviroClear, the surface tension can be reduced greatly, to increase penetration depth and create "wetter water."



### SURFACE PREPARATION

When possible, the surface should be smoothed and leveled out prior to application to allow for better penetration. For silt and clay roads, compaction of the road after application of EnviroClear will ensure a lasting result. After the first application of EnviroClear, you will notice a decline in water consumption over a short period of time.

### APPLICATION

As with all dust suppressants, application rates and methods depend upon the site, environment, soil type, and more. Please contact your TAG representative for site specific recommendations. Each site is unique, and as such, the following application rates are based on averages in the field. EnviroClear is readily dispersible in water and should be diluted in water at a rate of 1,500:1. It is also recommended to add the product when the water truck is almost full.

Surface Type	Particle Grade	Gallons / Acre*	Dilution Rate
Typical loose dirt road	Sand	1-2	1500:1
Compacted dirt road	Silt	2-3	1500:1
Alkaline or clay surfaced road	Clay	3-4	1500:1

### SOIL CLASSIFICATION

All soil is not equal. Prior to any dust control recommendations, it is very important to test your soil. Particle size, liquid limit and plasticity can all have a dramatic effect on the success of any dust control measures and should be determined before any application.

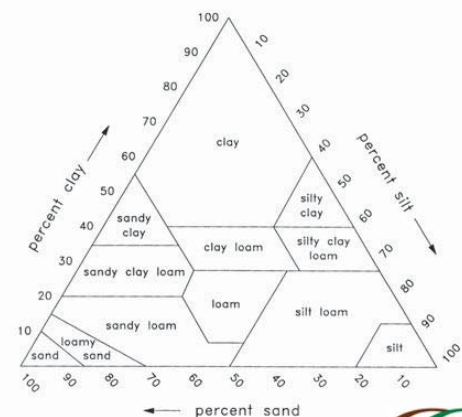
Sand Sieve Analysis is a practice or procedure used to assess the particle size distribution of granular material. The size distribution is critical in determining the type of dust suppressant needed and application rates to be used. The practice of Sieving is quick and accurate, measuring the maximum diameter of a sediment grain. There are four aspects of this proven test, including sizing, sorting, kurtosis, and skewness. After the analysis, we can determine the percent sand, silt and clay in your soil, and textural class, hereby recommended an accurate application rate and method for your needs.

We also recommend a soil moisture test to determine the liquid limits of your soil.

Depending upon the water content of the soil, it may appear in four states: solid, semi-solid, plastic and liquid. In each state the consistency and behavior of a soil is different and thus so are its engineering properties. Thus, the boundaries between each state can be defined based on a change in the soil's behavior.

All of these tests and classifications will help determine the best dust control product, application rates and techniques to ensure a successful application.

**Partner with TAG to identify and test the best solution for your soil.**



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