



BioTAG

Dust Suppressant

The Solution is Clear.

BENEFITS

- *All-Natural*
- *Long Lasting*
- *Proven Performance*
- *Biodegradable*

APPLICATIONS

*Organic Ag Land
Unpaved Roads
Construction Sites
Parks
Parking Lots
Campgrounds
Driveways*

BioTAG is a 100% agriculturally derived vegetable oil based dust suppressant, designed as the clear alternative to Lignin Sulfonate, Calcium Chloride and Mag Chloride. BioTAG is our latest product amongst our eco-friendly line of dust suppressants and is USDA approved as bio-based dust suppressant. BioTAG is water soluble, giving us the ability to adjust the concentration levels to meet the specific needs of each unique application. The ability of BioTAG to penetrate soil surface is due to the humectant properties of the product. These properties attract moisture to the coated dust particles and will continue to attract moisture. This allows the BioTAG treated surface to be reactivated with a decreased amount of water and BioTAG in following treatments. BioTAG is a superior choice for an economical, easy to apply, long lasting dust suppressant.



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Application Rates & Techniques

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.

Application Type	Sq. Ft. Covered per Gallon	Gallons / Acre*
Light Traffic Road	545 sq. ft.	160 gal / acre
Heavy Traffic Road	396 sq. ft.	200 gal / acre
Maintenance Application	4,356 sq. ft.	10 gal / acre

*BioTAG can be diluted in water at any ratio.

SURFACE PREPARATION

When possible, roadways should be graded. This will allow for maximum penetration of BioTAG, allowing BioTAG to agglomerate the dirt particles for better protection. For silt and clay roads, compaction of the road after application of BioTAG will ensure a lasting result. For average conditions, a single application will last an entire season. BioTAG remains wet during application and continues to cure as it controls the dust.

ENVIRONMENTAL SAFETY

The functional constituent of BioTAG is derived from grain in the production of naturally-sourced biodiesel. A number of universities and government agencies in this country and in Europe have studied the use of this constituent as an animal feed additive; these studies have shown high nutritional benefit to cattle, hogs and poultry at levels comprising as much as 10% of the animals' diets. The US Department of Agriculture has determined that this constituent may be used as an ingredient in organic foods (see 7CFR 205.605 for details). Many food, drug, and personal care products are formulated with the same constituent used in BioTAG. The US Food and Drug Administration has approved it for use in dental hygiene products (21CFR 310.534), skin care products (21CFR 347.19), ear cleansers (21CFR 344.10), eyewashes and other ophthalmic care products (21CFR 344.1). For food uses, the component is listed by the FDA as "Generally Recognized as Safe" (GRAS) as a multi-purpose food additive (21CFR 182.1320); among many other foods, it can be found in marshmallows, candy, fudge and baked goods.

Aquatic toxicity studies have shown it to be safe to various species of fish at levels in excess of 5,000 mg/l. Similarly, its toxicity to environmental microorganisms has been determined to be equally low. Many scientific studies have concluded that the inherent safety of this component is so great that additional work is not generally recommended. With these facts in hand – safety as a food, drug and feed additive, negligibly low toxicity to microorganisms and fish, innocuous breakdown products – BioTAG can be used in even the most sensitive applications.

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.

