



BioTAG

Dust Suppressant

The Solution is Clear.

BENEFITS

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

APPLICATIONS

*Organic Ag Land
Unpaved Roads
Farm Roads
Construction Sites
Parking Lots
Campgrounds*

BioTAG is a 100% agriculturally derived vegetable oil based dust suppressant, designed as a clear alternative to Lignin Sulfonate, Calcium Chloride and Magnesium Chloride. BioTAG is our latest product amongst our eco-friendly line of dust suppressants and is USDA approved as bio-preferred dust suppressant. Designed for environmentally sensitive applications such as wineries, farm roads, and other agricultural land, BioTAG penetrates the soil surface and attracts moisture due to its humectant properties. After application, BioTAG treated surfaces will be reactivated with a reduced amount of water and a small maintenance application. BioTAG is a superior choice for an economical, environmentally sensitive, long lasting dust suppressant.



www.tagchemical.com/dust

The Amber Group, LLC
40 Red Rock, Suite 200
Irvine, CA 92604
Tel: 866.762.4060
Fax: 949.857.5003
www.tagchemical.com

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*
<i>Light Traffic Road</i>	<i>545 sq. ft.</i>	<i>80 gal / acre</i>
<i>Heavy Traffic Road</i>	<i>396 sq. ft.</i>	<i>110 gal / acre</i>
<i>Maintenance Application</i>	<i>4,356 sq. ft.</i>	<i>10 gal / acre</i>

*BioTAG can be diluted in water at any ratio.

Application of BioTAG requires maintenance watering with an added dose of BioTAG to maintain the humectant properties of the product. Typical application of BioTAG is best suited for agricultural roads that currently utilize some form of water schedule for dust control. Use of BioTAG reduces the number of waterings up to 50% and sometimes more. The humectant properties of BioTAG will hold the water longer slightly under the surface of the ground, allowing for an expanded watering schedule.

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. 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.

SAND SIEVE ANALYSIS

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, thereby recommended an accurate application rate and method for your needs. For a free Sieve Analysis, please send a sample of your soil to The Amber Group, 40 Red Rock, Suite 200, Irvine, California 92604, or contact us at (866) 762-4060.

Particle Grade	Size (mm)	Surface Preparation
very coarse	1-2	Smooth and level surface prior to application.
medium sand	0.25-0.50	
fine sand	0.125-0.25	Loosen top inch of soil prior to application for better coverage/penetration.
silt	0.0039-0.0625	
clay	less than 0.0039	

For more information about BioTAG and our other products, please contact visit us at www.tagchemical.com.