SOIL AMENDMENTS

Humic DG™

HUMIC SOLUTIONS

Humic DG granules contain 70% humic acid and 10% humic acid precursor. DG technology creates a dust free, spherical, ultra dry particle that rapidly disperses into thousands of microparticles upon contact with moisture. Humic DG granules' increased surface area, when compared to screened humate, creates greater availability to the plant. It performs in a wide range of conditions and soil types, independent of application method and feature dual carbon sources that are unique to The Andersons granular humic products. Humic DG contains the full spectrum of humic substances: fulvic acid, humic acid, and humin, as well as humic acid precursor.

PRODUCT ALTERNATIVES

UltraMate® LQ	K-Mate SG™	**Humic DG™**	Black Gypsum DG™
• Dark, heavier product • Contains humic and fulvic acid • Foliar or soil applied	• 99% humic acid • 100% water soluble • Can be applied through sprayers or drip irrigation	• 70% humic acid • Blends with fertilizer	• 10% humic acid • 70% calcium sulfate • Blends with fertilizer

FEATURES & BENEFITS

- Flexible application allows for use as a stand alone product or in blends with granular fertilizers
- 4X more efficient than screened humate
- Enhances nitrogen and phosphorus efficiency
- Promotes good soil structure and increases water holding capacity
- Enhances root system development
- Easy to handle and spread through all types of application equipment
- Economical application cost per acre compared to liquid and screened humates

FREQUENTLY ASKED QUESTIONS

Q: What crop types benefit from an application of Humic DG granules?

A: All crops, including broad acre crops, trees and soft fruits, vegetables, vine crops, and nursery/greenhouse soils, benefit from Humic DG granules. Research has shown average yield increases of 5-10 bushels per acre of corn and 2-7 bushels per acre of soybeans.

Q: When, and at what rate, should Humic DG granules be applied?

A: Humic DG granules can be applied whenever nutrients are applied, or with specific growth stages of the crop. Application rates vary from 5 to 40 pounds per acre (see reverse for specific rates). A program approach is most effective.

Q: What nutrients do Humic DG granules provide?

A: Humic DG granules provide dual sources of carbon, an essential element. Water soluble (available) carbon provides a "bridge" in soils with low humus content by providing a food source (carbon) for beneficial microbes. The humic makeup of Humic DG granules improve the efficiency of applied nutrients and unlocks tied up macronutrients in the soil. It can also reduce soil salinity.

Q: How does the humic acid content of Humic DG granules compare to other liquid and dry humic acid products?

A: As a granular soil amendment with 70% humic acid (A&L method), Humic DG granules compare favorably to dry, granular, and powdered humic acid products. The humic acid is more effective in the soil than most of the competitive products due to the self- incorporating microparticles that provide greater surface area for soil activity and contain all three humic fractions.

Q: Can Humic DG be considered for organic or sustainable agriculture?

A: Yes, Humic DG is a great fit for organic and sustainable agriculture. It is OMRI Listed and OIM Certified in California.

Q: How does humic acid affect nitrogen volatilization?

A: The high reactivity of humic acid retains the nitrogen in the ammonium form, preventing it from volatilizing to ammonia and not being utilized by the plant.

Q: Do humic acids influence phosphorus activity in the soil?

A: Yes, increased phosphorus availability has been observed in academic studies. Humic acid impacts both short-term and long-term phosphorus availability.

The Andersons PLANT NUTRIENT

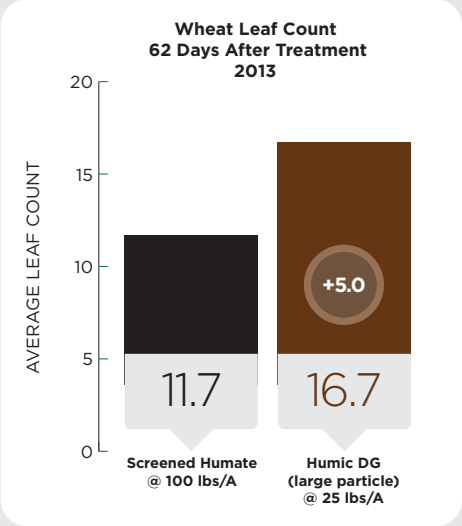
FOR MORE INFORMATION
800-831-4815
png@andersonsinc.com
AndersonsPlantNutrient.com
AndersonsHumates.com

OMRI LISTED For Organic Use

4R nutrient stewardship

RESEARCH

Humic DG™ granules show superior performance and ease of use.



On-Farm Demo | Wisconsin, 2015

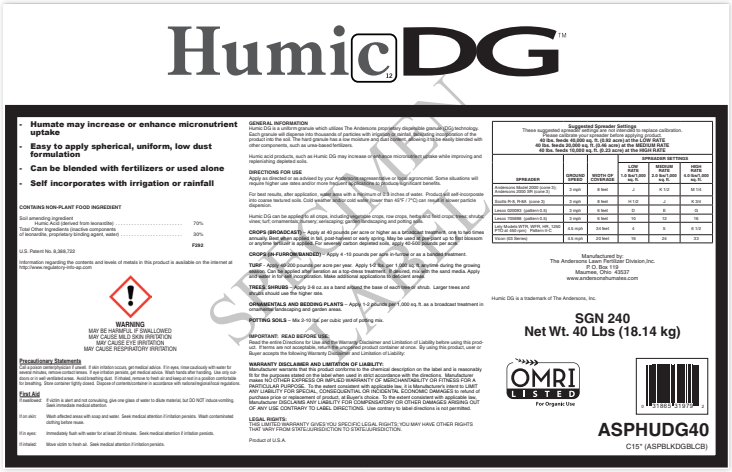
Untreated **Humic DG (15 lb/A broadcast)**

HUMIC DG
- Uniform
- Dust Free
- Less than 10% moisture content

COMPETITORS
- Non-uniform
- Dusty
- 20% moisture content

CROP COACH™

To see how this product can be used in a complete nutrition program visit **CROPCOACH.COM**



NON-PLANT FOOD INGREDIENTS

Soil Amending Ingredient
Humic Acid* 70.0%
Total Other Ingredients** 30.0%

*Derived from Leonardite

**Inactive components of leonardite, proprietary binding agent, water

PHYSICAL PROPERTIES

pH 3.2-3.9
Density ..... 43.0 lbs/ft^3
Carbon Content 45-47%
Color ..... Black

APPLICATION

	Application	Use Rate (per acre)	Timing
Row crops, specialty crops, legumes	Soil	4-10 pounds in furrow; 40 pounds maintenance or corrective	Post harvest up through planting

Humic DG application rates and frequency are dependent upon soil and climate conditions. The typical application rates for corn applications are:

- **In-furrow (strip till or air drill with fertilizer):** 4-10 lbs Humic DG/acre
- **2x2 with urea:** 4-10 lbs Humic DG/acre
- **Sidedress:** 45-90 lbs of urea with 10-20 lbs Humic DG/acre
- **Broadcast with urea or ammonium sulfate:** 10-20 lbs Humic DG/acre

Available in 40 lb bags, 2000 lb totes, or bulk.

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