



2022 PROFESSIONAL TURF AND ORNAMENTAL CATALOG

HUMIC PRODUCTS

FERTILIZERS

HERBICIDES

INSECTICIDES

FUNGICIDES

GROWTH REGULATORS

ORGANIC PRODUCTS

SPREADERS

ROOTED IN QUALITY, SERVICE, AND TECHNOLOGY

With a focus on quality, service, and technology, the products we bring to market are designed to make work easier for those who use them. From a broad range of fertilizers, control products, and soil enhancers, to patented products and delivery systems, we're committed to delivering next-generation solutions with the highest level of quality and customer service in the industry.

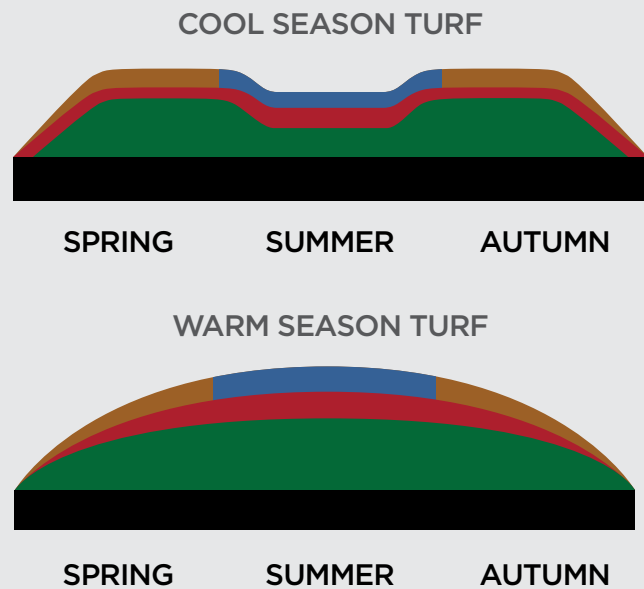
The Andersons, Inc. was founded in 1947 in Maumee, Ohio, and is currently an eight billion dollar corporation (NASDAQ:ANDE). As a worldwide supplier to the turf industry, The Andersons is a major manufacturer and marketer of patented dispersible granular products such as Contec DG® for putting greens, tees, and other fine turf. In addition, The Andersons offers a full line of premium products for several professional markets that include golf courses, sports turf, lawn and landscape, horticulture, and agriculture. The Andersons is an active member of GCSAA, NGF, PLANET, STMA, ITODA, RISE, and many other industry organizations.

The Andersons, Inc. also conducts business in the commodity merchandising and biofuels sectors.

For more about The Andersons, visit www.AndersonsPlantNutrient.com.

PRODUCT APPLICATION BASED ON SEASONAL GROWTH HABITS

The charts below illustrate the use of our products over the course of the maintenance season. The colored sections correspond with the product categories listed in the table of contents at the bottom of the page.



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or product name to
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on any page to
return to the
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NITROGEN SOURCES

THE ANDERSONS' PROPRIETARY NITROGEN SOURCE

HCU® (HUMIC COATED UREA)

This proprietary technology from The Andersons produces a cost-effective 44-0-0 nitrogen granule that is bonded with potassium humate. These clean, spherical, free-flowing granules are 100% soluble for use in both liquid and dry applications. The humic coating aids in the prevention of nitrogen loss from volatilization better than or equal to industry standard enhanced efficiency fertilizers. Additionally, the humic coating serves as a great carbon source to help soil microbiology flourish.

STABILIZED NITROGEN

This category of enhanced efficiency fertilizers (EEFs) has no coating applied to the prill, similar in the case of slow release technology. EEFs are fertilizers which contain a plant nutrient in a form which delays its availability for plant uptake and use. However, rather than a coating like their slow release counterparts, these products utilize a nitrogen release inhibitor that is applied to the fertilizer (AAPFCO, 2017).

FORTIFY®-N

Fortify-N features dual-nitrogen stabilizer technology which minimizes risk from environmental losses such as volatilization, leaching, and denitrification. Compared to an untreated urea, this technology allows for better utilization of nitrogen; it enhances performance, protects the environment, and improves cost-in-use.

ORGANIC NITROGEN SOURCES

BIOMEND®

Biomend features all natural and organic nutrient sources and contains no biosolids, manure, or wastewater byproducts. Utilizing a plant-based soybean meal for a portion of the nitrogen source, Biomend does not emit any odor like biosolid/poultry fertilizers.

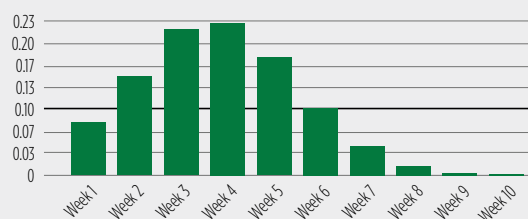
BIOSOLIDS

Biosolids consist of both quick and slow release forms of nitrogen. These products provide both quick greening and longer-term nitrogen feeding.

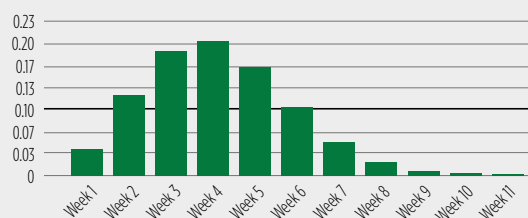
INNOVA®

This fertilizer source is 100% plant derived and OMRI approved, making it an ideal addition to organic fertility programs. This product is odor free and contains no biosolids, manure, or wastewater byproducts.

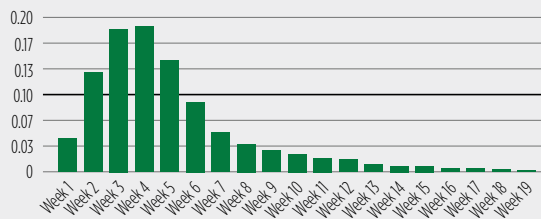
TURFGRASS RESPONSE TO HCU®



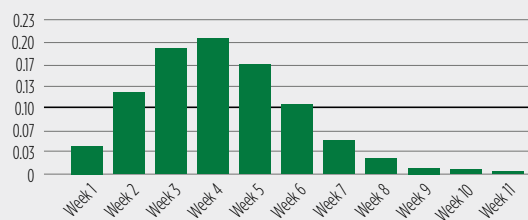
TURFGRASS RESPONSE TO FORTIFY®-N



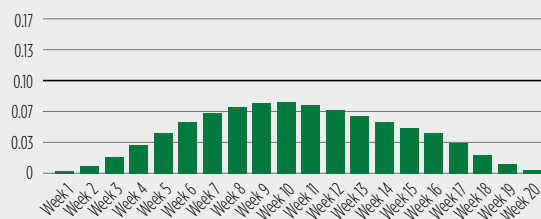
TURFGRASS RESPONSE TO BIOMEND®



TURFGRASS RESPONSE TO BIOSOLIDS



TURFGRASS RESPONSE TO INNOVA®



You work hard to create high-quality turf and beautiful landscapes for your customers, and we work hard to provide technology that makes your job easier. Enhanced efficiency fertilizer products allow increased plant nutrient availability and reduce the potential for nutrient loss into the environment. Enhanced efficiency products are any that are defined as “having slow release and stabilized characteristics” (AAPFCO, 2017).

SLOW RELEASE NITROGEN

The Association of American Plant Food Control Officials (AAPFCO) defines slow or controlled release fertilizers as “containing a plant nutrient in a form which delays its availability for plant uptake and use after application”. (AAPFCO, 2017).

MUTECH®

This controlled release nitrogen source derived from methylene urea provides extended release for our longest duration fertilizers. Methylene urea provides steady, predictable nitrogen release regardless of your climate. MUTEch fertilizers have a low salt index which means there is low burn potential.

POLY-S®

This premium slow release fertilizer is a polymer-coated, sulfur-coated urea which provides extended nitrogen release. Poly-S contains a high percentage of sulfur in the coating of every prill.

NS-54™

This premium slow release fertilizer is a polymer-coated, sulfur-coated urea which provides extended nitrogen release. NS-54 contains a modestly higher percentage of nitrogen than traditional PCSCU due to an advanced polymer coating combined with a lower sulfur coating weight.

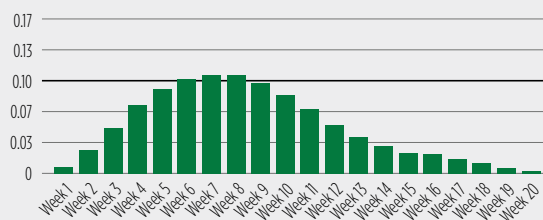
EXTEND™

This slow release fertilizer technology is a polymer-coated urea (PCU) which contains no sulfur. Extend’s long release characteristics, paired with great economics in use, make it an ideal nitrogen source for large turf areas such as golf course fairways and parks.

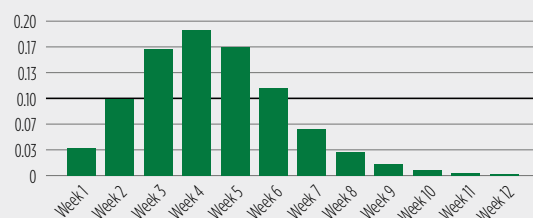
LN3

The only liquid, controlled-release technology in the slow release category, LN3 is a nutrient-based urea triazone technology. LN3 is a cyclic compound which is chemically very stable, so a more predictable release can be expected when microbial activity breaks it down, compared to traditional methylated N sources.

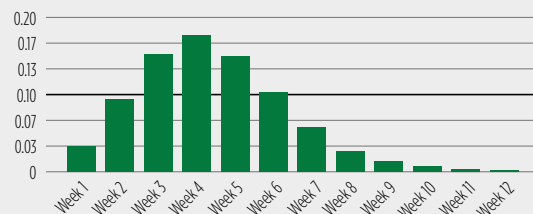
TURFGRASS RESPONSE TO MUTECH®



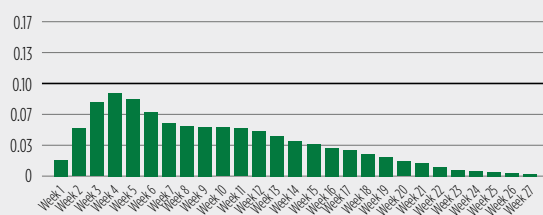
TURFGRASS RESPONSE TO POLY-S®



TURFGRASS RESPONSE TO NS-54™



TURFGRASS RESPONSE TO EXTEND™



■ GRANULAR N TURF RESPONSE — TARGET N

All graphs represent a release rate of the respective technology applied on May 7th at 1 lb. N/1000 sq. ft. The designated USDA climate zone for these graphical representations was region 5b.



Visit TurfNutritionTool.com to see how these nitrogen sources fit into your nutrition program.



DG PRO[®] TECHNOLOGY

All granule carrier technology is not created equal, and the results can be impacted as such.

- Traditional limestone carriers utilized in control products are slow to break down and may not release active ingredients effectively.
- Lightweight carriers such as Biodac or corncob may break down quicker than limestone, but, due to their lower bulk density and smaller sizing, may be more impacted by wind during product application.
- DG Pro[®], The Andersons' Dispersing Granule (DG) carrier, alleviates these frustrations by diffusing into thousands of sub-particles upon watering, quickly releasing the active ingredient to the soil and providing enhanced coverage. The DG Pro carrier typically provides superior results vs. traditional inert carriers.



DUOCIDE[®] INSECTICIDE

Unlike most insecticide products on the market today which force applicators to choose between controlling surface OR sub-surface insects, DuoCide represents the only solution designed to suppress insects both above AND below the surface.

Featuring carbaryl and bifenthrin, DuoCide is a broad-spectrum insecticide designed for the preventative and curative treatment of feeding insects, including white grubs, army worms, chinch bugs, sod webworm, and many more.

Unlike other insecticide products featuring corncob carriers which take much longer to breakdown, DuoCide is formulated using The Andersons' DG Pro[®] dispersing granule carrier which immediately breaks down particles upon contact with water, more quickly dispersing the insecticide.



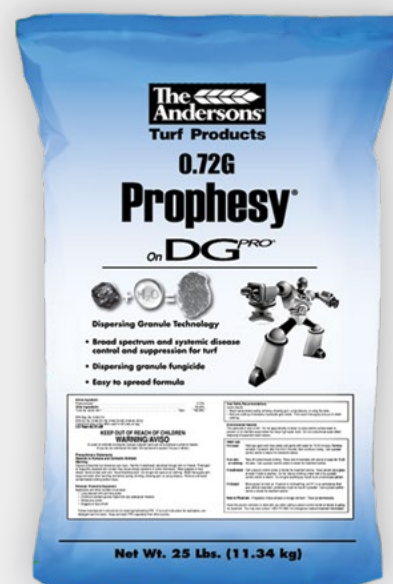


PROPHECY® FUNGICIDE

There is an old adage among turf managers that says, “An ounce of fungicide product applied preventatively is the equivalent of a pound of product applied curatively”.

Trying to apply fungicide after the onset of disease symptoms will stop the progression of the pathogen, but the turf that has already suffered damage will have to regrow. This can cause great frustration with homeowners and can lead to decreased revenue, should the customer decide to leave the program. Whether you attack summer diseases preventatively or you are forced into curative mode, you'll need the right product for the job. Getting good control of brown patch does not always mean breaking the bank along the way!

Prophecy fungicide offers control of many diseases (including brown patch, dollar spot, anthracnose, and more) with continued protection up to 21 days. Prophecy fungicide provides excellent disease control at almost half the cost of competitive products.



GRUBOUT®

GrubOut is based on the active ingredient imidacloprid which is the most widely used chemistry for season-long grub control. We offer a variety of fertilizer blends including GrubOut to meet your turf and landscape needs.

TRAMMEL®

Trammel weed and grass preventer is a selective pre-emergent herbicide designed to control annual grasses and broadleaf weeds on landscapes and container- and field-grown ornamentals. Featuring dispersing granule technology, this product can be easily incorporated with irrigation and rainfall.

HUMIC PRODUCTS

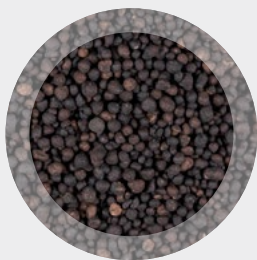
HUMIC SUBSTANCES

Humates, or humic substances, are a naturally occurring, mined material. Like coal, humates occur as a result of the compression and degradation of nutrient-rich deposits of plant and animal remains. This produces a highly reactive, carbon-rich material that serves as a powerful addition to a turf management program.

Humates make up 60-80% of soil organic matter.¹ This soil organic matter provides substantial benefit to both soil and plants, increasing nutrient holding capacity, water holding capacity, and stable aggregates.

We utilize the highest quality humates in a complete range of products designed to improve plant nutrient uptake, efficacy, and rooting capacity, which yields an increased tolerance to many environmental stressors (drought, temperature, traffic).

1.Brady, Nyle C, and Ray R Weil. The Nature and Properties of Soils. 14th ed., Pearson Education, 2008



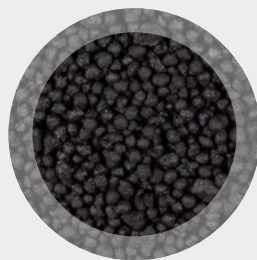
HCU® 44-0-0
(HUMIC COATED UREA)

**Soluble
Granules**

**Dry or Spray
Applied**

2% Humic Acid
(A&L Method)

SGN 215



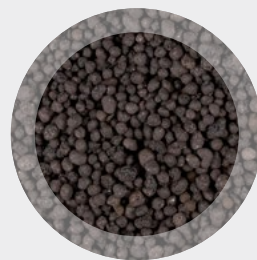
HUMIC DG™

**Dispersing
Granules**

Dry Applied

70% Humic Acid
(A&L Method)

SGN 75 or 240



**BLACK
GYPSUM DG®**

**Dispersing
Granules**

Dry Applied

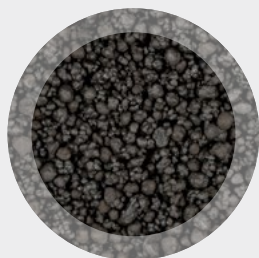
**10% or 21%
Humic Acid**
(A&L Method)

SGN 75 or 240





[Click here to explore Humic Products on our website.](#)



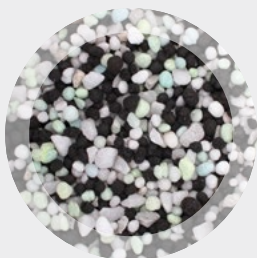
HUMIC DG™ CHARX®

Dispersing
Granules

Dry Applied

30% Humic Acid
(A&L Method)

SGN 200



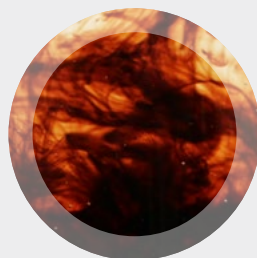
FERTILIZER + HUMIC BLENDS

Granules

Dry Applied

Humic Acid
Varies

SGN 100-240



ULTRAMATE® LQ

Liquid

Spray Applied

12% Humic Acid
(A&L Method)

-



ULTRAMATE® SG

Soluble
Granules

Spray Applied

70% Humic Acid
(A&L Method)

SGN 75



WHY HUMIC ACID?

Humic acid is a natural soil conditioner, organic chelator, and microbial stimulator that provides the following benefits:

- Supplies an oxidized, soluble carbon source, leading to improvement in long-term soil pH
- Enhances efficiency and availability of applied nutrients
- Chelates soil micronutrients, increasing their availability
- Improves cation exchange capacity
- Enhances soil structure and biology
- Reduces water requirements by increasing water holding capacity and enabling better water penetration in the soil

THE THREE HUMIC FRACTIONS

NATURALLY DERIVED BIO-ORGANIC CARBON SOURCES



Foliar Uptake



Soil Uptake

Humates are composed of three major fractions: fulvic acids, humic acids, and humins. Each of these fractions has some similar and some unique physical and chemical properties that contribute to their effectiveness and complement fertilizer programs. Our products contain all three forms of humic substances, maximizing the product benefits.

FULVIC ACIDS are highly soluble and readily absorbed by leaves, making them well-suited for foliar application. Fulvic acids enhance the absorption of nutrients and the efficiency of plant metabolic reactions.



HUMIC ACIDS are moderately soluble. They have a high cation exchange capacity (CEC), which helps increase a soil's nutrient holding capacity. Humic acid molecules chelate many essential nutrients and help stimulate soil microbiology.



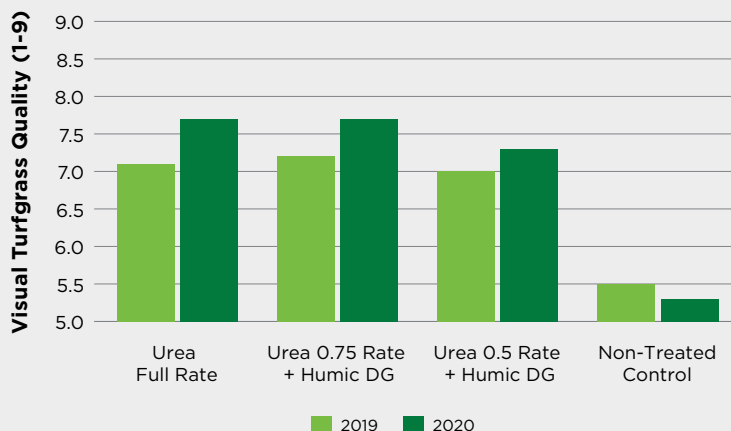
HUMINS are the least soluble form of humic substances. They contain high levels of carbon and have large nutrient holding capacity. Humins persist in soils for very long periods of time.



In addition to the three humic fractions, humic products utilizing The Andersons Dispersing Granule (DG) Technology contain a unique and powerful ingredient we call humic acid precursor. **HUMIC ACID PRECURSOR** contains a soluble form of organic carbon that releases into the soil as DG granules disperse. Through biochemical reactions, it is transformed into humic and fulvic acids, enhancing nutrient uptake and improving soil health.

HUMIC DG™ TURFGRASS QUALITY

IOWA STATE UNIVERSITY | KENTUCKY BLUEGRASS



At Iowa State University, field trials were conducted to determine if reduced nitrogen (N) fertilizer rates coupled with humic substances could provide comparable turfgrass quality as compared to full N rates without humic substances. Full fertilizer rate was 1 lb N per M; reduced rates were relative to full rate. Four applications were made (April, May, Sept, Oct). Humic DG was applied at 0.9 lb product per M. (M = 1000 ft²).

Treatments with reduced N rates and a humic component (Urea @ 0.75 + Humic DG, urea @ 0.50 + Humic DG) were similar in turfgrass quality and percent green cover to full N rate treatments (Urea @ 1.0).





HUMIC COATED UREA

This proprietary technology from The Andersons produces a cost-effective 44-0-0 nitrogen granule that is bonded with potassium humate. Clean, spherical, free flowing granules are 100% soluble for use in both liquid and dry applications. HCU granules can be applied to all types of cool and warm season turf, landscape and nursery ornamentals, and specialty crops.

SPRAY APPLICATION RATES

NITROGEN RATE	PRODUCT		HUMIC ACID*	SUGGESTED MIN. SPRAY VOLUME
	N / 1000 FT ²	LBS. / 1000 FT ²		
0.10	0.23	10	0.20	30
0.25	0.57	25	0.50	40
0.33	0.75	33	0.70	40
0.50	1.14	50	1.00	40
0.75	1.70	74	1.50	60
1.00	2.27	99	2.00	80

SPRAY APPLICATION

HCU granules completely solubilize when added to water and can be spray applied at nitrogen rates of 0.10 - 1.00 lbs. N/1,000 ft². To mix HCU granules for spray application, refer to the label for application rates, water volume, dilution, and mixing instructions. HCU granules can be mixed and added to the spray tank using industry standard practices including: pouring into the strainer basket at the top tank opening and running water over the granules to solubilize, preparing a bucket slurry mixture, adding granules through the spray tank inductor system, or preparing a solution in a mix batch tank system. The time required to solubilize HCU granules is reduced by using warm or hot water.

HCU granules are compatible with the most widely used control products for finely maintained cool and warm season turf. For peak product performance we recommend only tank mixing HCU with chelated iron (Fe) micronutrients such as Iron EDTA, HEDTA, etc. Mixing HCU with iron sulfate may potentially cause interaction issues within the tank mix. As always, we recommend a jar test prior to product mixing and application.

BROADCAST APPLICATION RATES

NITROGEN RATE	PRODUCT		HUMIC ACID*
	N / 1000 FT ²	LBS. / 1000 FT ²	
0.75	1.70	74	1.50
1.00	2.27	99	2.00
1.25	2.84	124	2.50
1.50	3.41	149	3.00

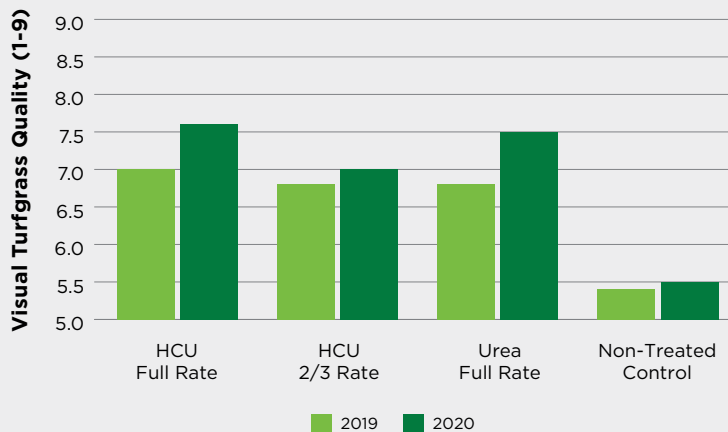
*Equivalent to gallons/acre rate of 12% liquid humic acid.

DRY SPREAD APPLICATION

Urea-humate fusion technology produces a clean, dry, dust-free, spherical HCU granule that is ideal for dry spread application. HCU granules can be applied through all types of granular spreading equipment including The Andersons Professional rotary spreaders, and larger scale broadcast spreaders such as Lely and Viccon models. Typical application rates range from 0.75 - 1.50 lbs N/1000 ft².

HCU® TURFGRASS QUALITY

IOWA STATE UNIVERSITY | CREEPING BENTGRASS



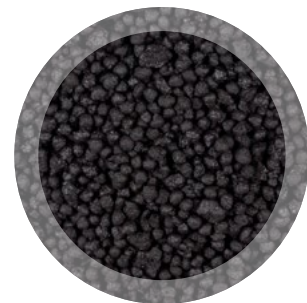
At Iowa State University, field trials were conducted to determine if humic products could improve soil biological activity and allow for reducing nitrogen (N) rates without compromising turfgrass quality and performance.

The reduced N rate treatment was equal in turfgrass quality and percent green cover to full N HCU rates. The HCU full rate was equal to the HCU 2/3rd rate, and both were equal to full rate of Urea. This positions HCU as a cost-effective and nutrient load-reducing option for large-area, bentgrass fertility applications.



Humic DG™ | 70% HUMIC ACID

Humic DG consists of a full spectrum of soil-nourishing humic substances including fulvic acid, humic acid, humin, and humic acid precursor. Dispersing Granule (DG) Technology creates a dust-free, dry particle that rapidly disperses into thousands of microparticles upon contact with moisture. The dust-free, rapidly-dispersing nature of Humic DG is in stark contrast to traditional screened humate products that are dusty and slower to break down.



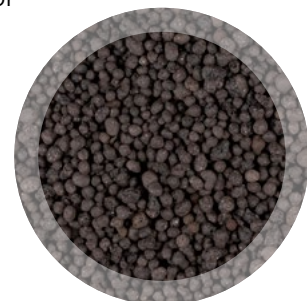
Black Gypsum DG® | 10% OR 21% HUMIC ACID

It is common for turfgrass managers combating sodic soil conditions to utilize gypsum products to help leach sodium (Na^+) from the rootzone and to improve soil structure. In past years, gypsum applications made with the anhydrate (CaSO_4) form of calcium (one water molecule), could take weeks to become available for plant uptake. This prolonged uptake process severely limited a turfgrass manager's ability to jumpstart the soil remediation process.



The gypsum source in Black Gypsum DG is calcium sulfate dihydrate ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$). With two extra water molecules, this version is more water soluble than its anhydrite counterpart (CaSO_4). This improved solubility means that uptake into the turfgrass plant occurs much quicker. The dihydrate form of gypsum also provides increased application flexibility for year-round soil remediation versus standard anhydrate forms of gypsum.

- Utilizes The Andersons Dispersing Granule (DG) Technology
- Delivers humic acid in all forms (fulvic acid, humic acid, and humin)
- Provides humic substances containing carbon, giving soil microbes a food source and habitat, and allowing microbial populations to flourish
- Allows essential macro and micronutrients in the soil to become more plant available
- Enhances the soil's ability to hold nutrients

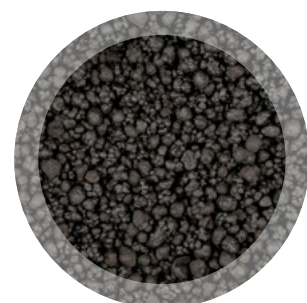


Humic DG™ CharX® | 30% HUMIC ACID

Humic DG CharX is a 50/50 blend of humic acid and biochar in a dust-free, spherical and dispersible granule. The Andersons Dispersible Granule (DG) technology provides hundreds of thousands of small particles of humic acid and biochar after being exposed to water. The list of benefits that can be derived from using biochar is very similar to humic acid products like Humic DG. Both humic acid and biochar are reported to improve soil characteristics in the following capacities:



- Enhances nutrient efficiency, retention, and cation exchange capacity
- Enhances soil structure, porosity, and water holding capacity
- Reduces potential nutrient leaching in soils
- Aids in amending acidic soils, due to biochar's pH of 7.0
- Provides a habitat and carbon food source for soil microorganisms



Product (Legacy Product Code / New Product Code)	Humic Acid Content (A&L Method)	Analysis (%)				SGN	Use Rates on Turf (per acre)	Density (lbs/ft ³)	Pkg. Wt.
		Calcium Sulfate Dihydrate (CaSO ₄ • 2H ₂ O)	Calcium (Ca)	Sulfur (S)	Soluble Potash (K ₂ O)				
HCU® 44-0-0 ASP44HCU5 / 10006117	2%	-	-	-	-	215	Spray: 0.10-1.00 Dry: 0.75-1.5	46.0	50 lb
Humic DG™ ASPHUDGGRN4 / 10005964	70%	-	-	-	-	75	40 - 200 lbs	42.0	40 lb
Humic DG™ ASPHUDG40.1 / 10005955	70%	-	-	-	-	240	40 - 200 lbs	43.0	40 lb
Black Gypsum DG® ASPGY10HUDG5 / 10005921	10%	70.0	17.0	13.0	-	240	130 - 520 lbs	56.0	50 lb
Black Gypsum DG® ASPGYHUGRN5 / 10005937	21%	48.0	12.0	8.9	-	75	130 - 520 lbs	49.0	50 lb
Black Gypsum DG® ASPGYHUDG5 / 10005930	21%	48.0	12.0	8.9	-	240	130 - 520 lbs	49.0	50 lb
Humic DG™ CharX® ASPBIOHU4 / 10003605	30%	-	-	-	-	200**	43 - 174 lbs	37.0	40 lb

FERTILIZERS WITH HUMIC DG™

Product <small>(Legacy Product Code / New Product Code)</small>	Feature	SGN	Typical Rates			Sources		Other Nutrients (%)								Density (lbs/ft³)	Pkg. Wt.
			Products Lbs/M	Nutrients Lbs/M	Humic DG Lbs/Acre	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S			
5-10-10 + 25% Humic DG™ ASP5HUSPWN5 / 10006130	65% MUtech®, 25% Humic DG™, SmartPhos®	150	4.0 - 10.0	0.4 - 1.0 P, K	43 - 109	Smart- Phos	SOP	1.0	3.4	2.0	-	-	-	3.4	51.3	50 lb	
13-0-3 + 11.5% Humic DG™ ASPI33HU5.40 / 10005798	25% NS-54™ 52% Biosolids	240	4.0	0.52 N	20	-	SOP	1.0	-	-	-	-	1.6	3.7	48.8	50 lb	

FERTILIZERS WITH BLACK GYPSUM DG® & HCU®

Product <small>(Legacy Product Code / New Product Code)</small>	Feature	SGN	Typical Rates			Sources		Other Nutrients (%)								Density (lbs/ft ³)	Pkg. Wt.
			Products Lbs/M	Nutrients Lbs/M	Black Gypsum DG Lbs/Acre	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S			
22-0-4 with 50% HCU® + 43% Black Gypsum DG® <small>ASP22HCUBG5.1 / 10005848</small>	50% of N from HCU 43% Black Gypsum DG	240	4.0	0.88 N	74	-	SOP	-	-	-	-	-	7.2	6.9	49.3	50 lb	
9-12-6 with 37% HCU® + 36% Black Gypsum DG® and SmartPhos® P <small>ASP9HCUBG5 / 10005895</small>	37% of N from HCU 36% Black Gypsum DG	240	4.0	0.48 P	63	MAP/ Stru- vite	SOP	1.0	2.0	-	-	-	6.1	6.7	54.6	50 lb	

HUMIC LIQUID & SOLUBLE GRANULES

Product (Legacy Product Code / New Product Code)	Humic Acid Content (A&L Method)	Analysis (%)				SGN	Use Rates on Turf (per acre)	Pkg. Wt.
		Calcium Sulfate Dihydrate (CaSO ₄ • 2H ₂ O)	Calcium (Ca)	Sulfur (S)	Soluble Potash (K ₂ O)			
UltraMate® LQ AG14010W / 10000990	12%	-	-	1.0	2.0	N/A	1 - 1.5 gal	2 x 2.5 gal case
UltraMate® SG ULTRAMATE SG.1 / 10001179	70%	-	-	6.0	14.0	75	1.5 - 2.0 lbs	30 lb

SOIL ENHANCERS

Product (Legacy Product Code / New Product Code)	Comments	SGN*	Density	Pkg. Wt.
DG Lime™ AGCDGLIME5.40 / 10004946	High quality dolomitic limestone formulated in SGN 100 dispersible granules (DG). Provides calcium and magnesium which are essential for plant growth. Neutralizes acidic soils.	100	69.8	50 lb
DG Gypsum™ AGCDGGYP50.40 / 10004944	High quality mined gypsum formulated in a SGN 100 dispersible granule (DG). Provides calcium and sulfur which are essential for plant growth. Lessens hard packed saline-sodic soils.	100	53.0	50 lb
NutraLime® DG Hi-Mag Lime - pelletized RS/LIME4070 / 10002272	NutraLime® DG pelletized lime (calcitic limestone) provides quick pH adjustments which promote better nutrient and pesticide efficiencies. Contains 20-21% calcium and 9-12% magnesium.	Standard	70.0	40 lb
NutraLime® DG Hi-Cal Lime - pelletized 10001136	NutraLime® DG pelletized lime (calcitic limestone) provides quick pH adjustments which promote better nutrient and pesticide efficiencies. Contains 30-34% calcium and 0.6-4.0% magnesium.	Standard	70.0	40 lb
NutraSoft® DG Gypsum - pelletized RS/GYPSUM70 / 10002271	NutraSoft® DG pelletized gypsum (calcium sulfate) supplies calcium and sulfur, lessens soil compaction, increases water penetration and displaces sodium in high salt soils. Contains 21% calcium and 16% sulfur.	Standard	70.0	40 lb

*Standard sizing can range from 215-240 SGN depending on raw material supply and sizing
**SGN size can range from 180-240 SGN depending on raw material supply and sizing



Product <small>(Legacy Product Code / New Product Code)</small>	Feature	Typical Rates		Lbs Nutrient/M			N Sources (%)		K Source	Other	SGN*	Density	Pkg. Wt.
		Lbs/M	Lbs/A	N	P	K	Amm N	Urea N					

FERTILIZERS WITH NS-54™ CONTROLLED RELEASE NITROGEN — AVAILABLE IN BULK BAGS

5-0-31 APT5151.40 / 10005648	20% NS-54™	3.0	131	0.15	-	0.93	-	5.00	K Chloride	10% Fe	Standard	73.3	50 lb
16-4-8 APT16425.40 / 10004260	40% NS-54™	4.5	196	0.72	0.18	0.36	1.56	14.44	K Chloride	2% Fe	Standard	62.3	50 lb
18-24-12 APT1845.40 / 10004279	25% NS-54™	4.2	183	0.76	1.01	0.50	9.39	8.61	K Chloride	-	Standard	58.0	50 lb
18-24-12 APT18850.40 / 10005349	48% NS-54™	4.2	183	0.76	1.01	0.50	9.40	8.60	K Chloride	-	Standard	57.8	50 lb
24-0-11 APT2412M5.40 / 10003413	50% NS-54™	4.2	183	1.01	-	0.46	-	24.00	K Chloride	2% Fe 1% Mn	Standard	56.0	50 lb
24-5-11 APT2455.40 / 10005409	50% NS-54™	4.2	183	1.01	0.21	0.46	1.96	22.04	K Chloride	3% Fe	Standard	56.7	50 lb
25-5-12 APT2512M50.40 / 10005414	50% NS-54™	4.0	174	1.00	0.20	0.48	1.96	23.04	K Chloride	2% Fe Micros	Standard	54.7	50 lb
28-3-10 APT281M5.40 / 10005426	50% NS-54™	3.6	157	1.01	0.11	0.36	1.17	26.83	KCl/K Sulfate	Micros	Standard	53.0	50 lb
28-3-10 APT282650.40 / 10004239	96% NS-54™	3.6	157	1.01	0.11	0.36	1.17	26.83	K Chloride	-	Standard	49.8	50 lb
30-0-6 APT3075.5 / 10005636	25% NS-54™	3.4	148	1.02	-	0.20	-	26.83	K Chloride	-	Standard	53.2	50 lb
30-0-10 APT30125.40 / 10003333	40% NS-54™	3.4	148	1.02	-	0.34	-	30.00	K Chloride	-	Standard	53.4	50 lb
30-3-6 APT3035.40 / 10004587	N/A	3.4	148	1.02	0.10	0.20	1.17	28.83	K Chloride	-	Standard	54.0	50 lb
30-3-9 APT301FE50.40 / 10005629	50% NS-54™	3.4	148	1.02	0.10	0.31	1.17	28.83	K Chloride	2% Fe	Standard	51.7	50 lb
32-3-10 APT32655.40 / 10005639	20% NS-54™	3.2	139	1.02	0.10	0.32	1.17	30.83	K Chloride	-	Standard	51.6	50 lb

FERTILIZERS WITH FORTIFY®-N AND/OR AVAIL® — AVAILABLE IN BULK BAGS

18-0-7 APT18U5.40 / 10005354	40% Fortify®-N	4.1	179	0.74	-	0.29	-	18.00	K Chloride	-	Standard	62.0	50 lb
18-12-6 APT184AP5.40 / 10005613	25% Fortify®-N with AVAIL®	4.1	179	0.74	0.49	0.25	4.69	13.31	K Chloride	AVAIL®	Standard	58.6	50 lb
21-0-21 APT21UFE5.5 / 10003626	75% Fortify®-N	3.5	152	0.74	-	0.74	-	21.00	K Chloride	2% Fe	Standard	58.6	50 lb
21-14-7 APT21UAP5.40 / 10003370	50% Fortify®-N with AVAIL®	3.5	152	0.74	0.49	0.25	5.48	15.52	K Chloride	AVAIL®	Standard	56.9	50 lb
22-0-3 APT22UM5.5 / 10005405	50% Fortify®-N	3.4	148	0.75	-	0.10	-	22.00	K Chloride	2% Fe 2% Mg	Standard	60.0	50 lb
24-0-8 APT241UFE5.5 / 10003568	50% Fortify®-N	4.2	183	1.01	-	0.34	-	24.00	K Chloride	2% Fe	Standard	58.4	50 lb



Product <small>(Legacy Product Code / New Product Code)</small>	Feature	Typical Rates		Lbs Nutrient/M			N Sources (%)		K Source	Other	SGN*	Density	Pkg. Wt.
		Lbs/M	Lbs/A	N	P	K	Amm N	Urea N					

FERTILIZERS WITH FORTIFY®-N AND/OR AVAIL® (CONTINUED) — AVAILABLE IN BULK BAGS

25-0-3 APT25UFE5.5 / 10003351	50% Fortify®-N	4.0	174	1.00	-	0.12	-	25.00	K Chloride	2% Fe	Standard	59.4	50 lb
25-0-3 APT25U5.40 / 10003175	50% Fortify®-N	4.0	174	1.00	-	0.12	-	25.00	K Chloride	-	Standard	57.8	50 lb
30-0-4 APT30U5.40 / 10003808	50% Fortify®-N	3.4	148	1.02	-	0.14	-	30.00	K Chloride	-	Standard	54.2	50 lb
32-0-4 APT32UFE5.40 / 10003780	50% Fortify®-N	3.2	139	1.02	-	0.13	-	32.00	K Chloride	2% Fe	Standard	53.5	50 lb
32-0-8 APT32IUFE5.40 / 10003623	50% Fortify®-N	3.2	139	1.02	-	0.26	-	32.00	K Chloride	2% Fe	Standard	53.2	50 lb
33-0-5 APT333UFE5.40 / 10003569	100% Fortify®-N	3.1	135	1.02	-	0.16	-	33.00	K Chloride	2% Fe	Standard	52.7	50 lb
45-0-0 APT455.5 / 10005643	100% Fortify®-N	3.4	148	1.53	-	-	-	45.00	-	-	Standard	47.0	50 lb
46-0-0 APT4651.5 / 10005645	100% Fortify®-N	3.3	144	1.52	-	-	-	46.00	-	-	Standard	47.0	50 lb

FERTILIZERS WITH HUMIC ACID

Product <small>(Legacy Product Code / New Product Code)</small>	Feature	SGN*	Typical Rates		Sources		Other Nutrients (%)							Density	Pkg. Wt.
			Products Lbs/M	Nutrients Lbs/M	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S		
5-10-10 + 25% Humic DG™ <small>ASP5HUSPWM5 / 10006130</small>	65% MUTECH®, 25% Humic DG™, SmartPhos® P	150	4.0 - 10.0	0.4 - 1.0 P, K	Smart- Phos	SOP	1.0	3.4	2.0	-	-	-	3.4	51.3	50 lb
13-0-3 + 11.5% Humic DG™ <small>ASPI33HU5.40 / 10005798</small>	53% BioSolids, 25% NS-54™, 11.5% Humic DG™	Standard	4.0	0.52 N	-	SOP	1.0	-	-	-	-	1.6	3.7	48.8	50 lb
22-0-4 with 50% HCU® + 43% Black Gypsum DG® <small>ASP22HCUBG5.1 / 10005848</small>	50% of N from HCU®, 43% Black Gypsum DG®	Standard	4.0	0.88 N	-	SOP	-	-	-	-	-	7.2	6.9	49.3	50 lb
9-12-6 with 37% HCU® + 36% Black Gypsum DG® and SmartPhos® P <small>ASP9HCUBG5 / 10005895</small>	37% of N from HCU, 36% Black Gypsum DG	Standard	4.0	0.48 P	MAP/ Stru- vite	SOP	1.0	2.0	-	-	-	6.1	6.7	54.6	50 lb

SPECIALTY FERTILIZERS

Product <small>(Legacy Product Code / New Product Code)</small>	Feature	Other Nutrients (%)							SGN*	Density	Pkg. Wt.
		Fe	Mg	Mn	Cu	Zn	Ca	S			
A-TEP ASP83296.6 / 10006157	Hi-Mag Trace Element Pkg.	8.0	12.0	3.0	0.5	-	-	9.0	100	67.0	50 lb
7-1-2 Innova® ASP7W4.1 / 10001809	Organic fertilizer with amino acids	-	-	-	-	-	-	-	Standard	31.0	40 lb
12-6-6 / 100% MUtech® ASPI21WM5.40 / 10005788	3-4 Month Release**	0.13	0.06	-	-	-	1.8	2.0	Standard	64.2	50 lb
14-7-7 / 50% MUtech® APT14W5.40 / 10005590	3-4 Month Release**	2.0	-	0.1	0.1	0.1	-	2.4	Standard	63.8	50 lb
14-14-14 / 61% NS-54™ APT1485.40 / 10005585	2-3 Month Release**	1.0	-	0.1	0.1	0.1	-	5.5	Standard	62.8	50 lb
18-6-12 / 83% MUtech®-XL ASPI81WM5.40 / 10006062	SmartPhos® P, 8-9 Month Release**	1.0	0.5	0.1	0.1	0.1	-	4.2	Standard	59.0	50 lb

WATER SOLUBLE FERTILIZERS

Product <small>(Legacy Product Code / New Product Code)</small>	Feature	Typical Rates		Lbs Nutrient/M			N Sources (%)		SGN*	Density	Pkg. Wt.
		Lbs/M	Lbs/A	N	P	K	Amm N	Urea N			
46-0-0 APT4651.5 / 10005645	100% Fortify®-N	3.3	144	1.52	-	-	-	46.00	Standard	47.0	50 lb
HCU® 44-0-0 ASP44HCU5 / 10006117	2% Humic Acid	2.27	43.5	1.0	-	-	-	44.00	215	46.0	50 lb

Foltec[®] LQ

The Foltec LQ line of products includes two distinct product groups. While the FOLTEC LQ ULTRA products include value-added ingredients like amino acids, sea plant extracts, phosphites, and micronutrients for premium turfgrass, the FOLTEC LQ CLASSICS products deliver time-proven formulations for a variety of applications.

Foltec[®] LQ — ULTRA —

Foltec LQ Ultra is a foliar feeding nutritional line derived from the highest quality ingredients intended for use on premium cut turfgrass. Foltec LQ Ultra formulations are designed to boost turf pre-stress conditioning and improve overall nutrient efficiency. Select formulations contain value added ingredients including amino acids, sea plant extracts, phosphites, and micronutrients.

FOLTEC LQ ULTRA MINORS

POWERED BY KEYPLEX[®]

KeyPlex is more than a minor element package. KeyPlex provides a complex of essential plant nutrients and bio-enhancements and utilizes the most efficient delivery system to supply them.



FOLTEC LQ ULTRA 6-12-6

SeaThru[™] +
amino acids +
essential turf
nutrients

INTRODUCING SEATHRU[®]

Unlike other sea plant extracts, which can bring foul odors and lack solubility, SeaThru clear sea plant extract delivers a highly-soluble formulation without the unwelcome smells. Featured in select Foltec LQ formulations, SeaThru has been shown to improve root growth, soil microbial activity, stress tolerance, and overall plant quality.

Foltec[®] LQ — CLASSIC —

This professional grade line of liquid fertilizers contains several time-proven formulations in its lineup. Foltec LQ Classics provide a complete foliar feeding and can be used in a variety of different green settings including: lawn care, sports turf, nursery, and specialty crops.



LIQUID FOLIAR NUTRITION

Product (Legacy Product Code / New Product Code)	Cool Season Turf fl oz/M sq ft	Warm Season Turf fl oz/M sq ft	Other Nutrients (%)								pH	Lbs/Gal	Bio-Enhancements
			Ca	Mg	Fe	Mn	Zn	Cu	B	S			
FOLTEC LQ ULTRA - 2 x 2.5 gal cases													
6-0-0 (Hi-Cal) ASP6M2X25 / 10003672	3 - 6	4 - 8	6.0	-	0.5	0.5	-	-	-	0.3	3.0	10.8	Seaplant Extract
6-0-0 (Hi-Mg, Mn) ASP6MAG2X25 / 10004700	3 - 4	4 - 8	-	2.0	-	5.0	-	-	-	-	3.5	10.4	SeaThru® (Kelp)
6-12-6 ASP6MICROS2X25 / 10004753	3 - 4	4 - 8	-	-	-	0.65	0.15	0.10	0.05	-	6.0	10.7	SeaThru® (Kelp)
0-0-27 ASPKPH272X25 / 10003587	1 - 5	1 - 5	-	-	-	-	-	-	-	-	8.0	12.3	-
29-2-3 ASP2922X25 / 10003673	2 - 8	2 - 8	-	-	-	-	-	-	-	-	11.0	11.0	-
Minors APTMICRO2X25 / 10000973 POWERED BY KEYPLEX®	0.73 - 1.47	0.73 - 1.47	-	1.5	3.5	0.75	0.75	-	0.16	-	5.0	11.2	Humic and Alpha-Keta Acids
SeaThru® with Fulvic Acid ASPSEAFUL2X25 / 10004714	3 - 4	4 - 8	-	-	-	-	-	-	-	-	4.0	8.4	SeaThru® (Kelp)

FOLTEC LQ CLASSIC - 2 x 2.5 gal cases													
12-2-10 ASPI23M2X25 / 10003670	6 - 12	8 - 12	-	-	0.1	0.05	0.05	0.05	-	-	7.8	10.27	-
12-0-0 ASPI2M2X25 / 10003680	6 - 12	8 - 12	-	-	6.0	2.0	-	-	-	-	2.8	11.7	-
14-0-3 ASPI42X25 / 10003671	6 - 12	8 - 12	-	-	-	-	-	-	-	-	9.5	9.35	-
17-0-5 ASPI7M2X25 / 10003636	6 - 12	8 - 12	-	0.5	1.0	0.1	0.1	-	-	-	8.4	10.67	-
18-3-6 ASPI8M2X25 / 10003635	6 - 12	8 - 12	-	-	0.5	0.05	0.05	0.05	-	-	8.0	10.64	-
20-3-5 ASP20FE2X25 / 10003634	6 - 12	8 - 12	-	-	0.5	-	-	-	-	-	8.0	10.45	-
28-0-0 ASP282X25 / 10003584	6 - 12	8 - 12	-	-	-	-	-	-	-	-	9.5	10.7	-



FOLTEC LQ PRODUCT USE GUIDE



Download the Foltec LQ Product Use Guide at
AndersonsPlantNutrient.com/FoltecLQ



Product (Legacy Product Code / New Product Code)	Feature	Typical Rates		Active Ingredient/A	Lbs Nutrient/M			N Sources (%)		K Source	SGN*	Bulk Density	Pkg. Wt.
		Lbs/M	Lbs/A		N	P	K	Amm N	Urea N				
FERTILIZERS WITH BARRICADE® OR PRODIAMINE — AVAILABLE IN BULK BAGS													
19-0-6 APT19UBR5.40 10005365	25% Fortify®-N 0.21% Barricade®	4.1	179	0.38 lb prodiamine	0.78	-	0.25	-	19.00	K Chloride	Standard	61.6	50 lb
13-0-0 APT13UBR5.40 10003164	25% Fortify®-N 0.28% Barricade®	4.1	179	0.50 lb prodiamine	0.53	-	-	-	13.00	-	Standard	67.4	50 lb
15-0-0 APT15UBR5.40 10005597	80% Fortify®-N 0.28% Barricade®	4.1	179	0.50 lb prodiamine	0.62	-	-	-	15.00	-	Standard	65.7	50 lb
12-0-4 ASP121UBPR5 10003165	100% Fortify®-N 0.38% Prodiamine 16.65% Biosolids	4.5	197	0.75 lb prodiamine	0.54	-	0.18	-	12.00	K Chloride	Standard	64.1	50 lb
18-0-4 APT184BR5.40 10003143	25% NS-54™ 0.38% Barricade®	4.0	174	0.66 lb prodiamine	0.72	-	0.16	-	18.00	K Chloride	Standard	62.2	50 lb
25-0-5 APT25BR52.40 10003221	0.38% Barricade®	4.0	174	0.66 lb prodiamine	1.00	-	0.20	-	25.00	K Chloride	Standard	59.0	50 lb
0-0-7 APTBRA450.2 10005665	0.426% Barricade®	4.0	174	0.74 lb prodiamine	-	-	0.28	-	-	K Chloride	Standard	80.9	50 lb
18-0-4 APT18UBR5.40 10003132	25% Fortify®-N 0.426% Barricade®	4.0	174	0.74 lb prodiamine	0.72	-	0.16	-	18.00	K Chloride	Standard	62.8	50 lb
21-3-8 APT215BR5.40 10005382	25% NS-54™ 0.426% Barricade®	4.0	174	0.74 lb prodiamine	0.84	0.12	0.32	1.17	19.83	K Chloride	Standard	59.6	50 lb
FERTILIZERS WITH DIMENSION® — AVAILABLE IN BULK BAGS													
13-0-0 APT13UDM5.5 10003154	25% Fortify®-N 0.103% Dimension®	4.0	174	0.18 lb dithiopyr	0.52	-	-	-	13.00	-	Standard	67.1	50 lb
18-0-4 APT184UDM5.40 10003172	25% Fortify®-N 0.103% Dimension®	4.0	174	0.18 lb dithiopyr	0.72	-	0.16	-	18.00	K Chloride	Standard	62.5	50 lb
18-3-7 APT184DM50.40 10005618	25% NS-54™ 0.103% Dimension®	4.0	174	0.18 lb dithiopyr	0.72	0.12	0.28	1.17	16.83	K Chloride	Standard	61.0	50 lb
19-0-0 APT19DM50.40 10005363	0.103% Dimension®	4.0	174	0.18 lb dithiopyr	0.76	-	-	-	19.00	-	Standard	62.5	50 lb
19-0-0 APT19UDM5.40 10003241	25% Fortify®-N 0.103% Dimension®	4.0	174	0.18 lb dithiopyr	0.76	-	-	-	19.00	-	Standard	62.2	50 lb
19-0-6 APT194DM5.40 10005359	25% NS-54™ 0.103% Dimension®	4.0	174	0.18 lb dithiopyr	0.76	-	0.24	-	19.00	K Chloride	Standard	61.3	50 lb
25-0-5 APT256DM5.40 10005419	50% NS-54™ 0.103% Dimension®	4.0	174	0.18 lb dithiopyr	1.00	-	0.20	-	25.00	K Chloride	Standard	56.9	50 lb
12-0-4 APT12UDM5.40 10003161	40% Fortify®-N 0.125% Dimension®	3.5	152	0.19 lb dithiopyr	0.42	-	0.14	-	12.00	K Chloride	Standard	67.5	50 lb
18-0-4 APT18UDM50.5 10003415	25% Fortify®-N 0.125% Dimension®	3.5	152	0.19 lb dithiopyr	0.63	-	0.14	-	18.00	K Chloride	Standard	62.6	50 lb
18-0-9 ASP187DM5.40 10006071	40% NS-54™ 0.125% Dimension®	3.5	152	0.19 lb dithiopyr	0.63	-	0.32	-	18.00	K Chloride	Standard	60.0	50 lb
13-0-4 ASP133UDM5 10003192	25% Fortify®-N 0.15% Dimension®	3.8	165	0.25 lb dithiopyr	0.49	-	0.15	-	13.00	K Chloride	Standard	66.2	50 lb



Product (Legacy Product Code / New Product Code)	Feature	Typical Rates		Active Ingredient/A	Lbs Nutrient/M			N Sources (%)		K Source	SGN*	Bulk Density	Pkg. Wt.
		Lbs/M	Lbs/A		N	P	K	Amm N	Urea N				
FERTILIZERS WITH DIMENSION® (CONTINUED) — AVAILABLE IN BULK BAGS													
18-0-4 APT183DM50.40 10003593	20% NS-54™ 0.164% Dimension®	3.5	152	0.25 lb dithiopyr	0.63	-	0.14	-	18.00	K Chloride	Standard	62.5	50 lb
18-3-12 APT18DM5.40 10005352	25% NS-54™ 0.164% Dimension®	3.5	152	0.25 lb dithiopyr	0.63	0.11	0.42	1.17	16.83	K Chloride	150	58.0	50 lb
19-0-0 APT194DM52.40 10003594	25% NS-54™ 0.164% Dimension®	3.5	152	0.25 lb dithiopyr	0.67	-	-	-	19.00	-	Standard	62.0	50 lb
19-0-6 APT194DM50.40 10003180	25% NS-54™ 0.164% Dimension®	3.5	152	0.25 lb dithiopyr	0.67	-	0.21	-	19.00	K Chloride	Standard	61.3	50 lb
15-0-10 APT157DM5.40 10005594	50% NS-54™ 0.25% Dimension®	3.4	148	0.37 lb dithiopyr	0.51	-	0.34	-	15.00	K Chloride	150	62.0	50 lb
21-0-10 APT21UDM5.40 10003155	50% Fortify®-N 0.25% Dimension®	3.4	148	0.37 lb dithiopyr	0.71	-	0.34	-	21.00	K Chloride	Standard	59.0	50 lb
FERTILIZERS WITH PENDIMETHALIN — AVAILABLE IN BULK BAGS													
20-0-4 APT20UPD5.40 10005376	30% Fortify®-N 0.86% ProPendi™	4.0	174	1.50 lb pendimethalin	0.80	-	0.16	-	20.00	K Chloride	Standard	61.5	50 lb
22-0-6 APT228PD50.40 10005403	40% NS-54™ 0.75% ProPendi™	4.6	200	1.50 lb pendimethalin	1.01	-	0.28	-	22.00	K Chloride	Standard	57.6	50 lb
FERTILIZERS WITH DIMENSION® & ACELEPRYN® — AVAILABLE IN BULK BAGS													
0-0-8 with DG Pro® ASP08DA5.40 10006260	0.067% Acelepryn® 0.167% Dimension®	3.4	150	0.10 lb chlorantranilip- role 0.25 lb dithiopyr	-	-	0.28	-	-	SOP	150	49.7	50 lb
28-0-3 w/ MUtech®-L and Contec DG® ASP282WDA5.40 10006083	87% MUtech®-L 0.067% Acelepryn® 0.167% Dimension®	3.4	150	0.10 lb chlorantranilip- role 0.25 lb dithiopyr	0.96	-	0.10	2.03	4.67	SOP	150	48.7	50 lb
30-0-10 with Extend™ ASP301DA5 10006089	100% Extend™ 0.067% Acelepryn 0.222% Dimension	3.44	150	0.10 lb chlorantranilip- role 0.33 lb dithiopyr	1.03	-	0.34	-	30.00	K Chloride	Standard	52	50 lb
FERTILIZERS WITH POST-EMERGENT WEED CONTROL — AVAILABLE IN BULK BAGS													
15-0-8 + Millennium Ultra® APT153ML4.6 10005592	25% Poly-S® 0.869% Millennium Ultra®	4.0	174	1.20 lb 2, 4-D 0.12 lb clopyralid 0.12 lb dicamba	0.34	-	0.32	-	15.00	K Chloride	150	51.4	40 lb
16-0-8 + Escalade® APT164ES4.6 10005603	25% Poly-S® 1.143% Escalade®	4.0	174	1.51 lb 2, 4-D ester 0.36 lb fluroxypyr ester 0.12 lb dicamba	0.64	-	0.32	-	16.00	K Chloride	150	50.7	40 lb
16-0-9 + Surge® APT164SR4.6 10005605	25% Poly-S® 1.434% Surge®	4.0	174	2.01 lb 2, 4-D ester 0.30 lb MCP 0.13 lb dicamba 0.06 lb sulfentrazone	0.64	-	0.36	-	16.00	K Chloride	150	50.8	40 lb
18-0-5 + LockUp® APT184LD5.40 10005620	25% NS-54™ 0.03% LockUp® 0.07% dicamba	4.6	200	0.06 lb penoxsulam 0.14 lb dicamba	0.83	-	0.23	-	18.00	K Chloride	150	42.8	50 lb
19-0-2 + Trimec® APT19WVF5.40 10005373	0.90% Trimec®	4.0	174	1.20 lb 2, 4-D ester 0.26 lb MCP 0.10 lb dicamba	0.76	-	0.08	-	19.00	K Chloride	150	49.6	50 lb
22-0-4 + Trimec® APT2250WF4.50 10005399	0.72% Trimec®	4.0	174	0.96 lb 2, 4-D ester 0.21 lb MCP 0.09 lb dicamb	0.88	-	0.16	-	22.00	K Chloride	150	47.7	40 lb

*Standard sizing can range from 215-240 SGN depending on raw material supply and sizing.



HERBICIDES

Product (Legacy Product Code / New Product Code)	Feature	Typical Rates		Active Ingredient/A	Lbs Nutrient/M			N Sources (%)				K Source	SGN*	Bulk Density	Pkg. Wt.
		Lbs/M	Lbs/A		N	P	K	Amm N	Urea N	WIN	WSN				
PRE-EMERGENT HERBICIDES ON DG PRO®															
0.48% Barricade® DG APTDG48BR5.40 10005674	DG Pro®	3.5	152	0.73 lb prodiamine	-	-	-	-	-	-	-	-	150	44.8	50 lb
0.25% Dimension® DG APTDG25DM5.40 10005667	DG Pro®	3.4	148	0.37 lb dithiopyr	-	-	-	-	-	-	-	-	150	46.3	50 lb
2.5% Balan® DG APTDG25B4.3 10005666	DG Pro®	1.8	75	2.00 lb benefin	-	-	-	-	-	-	-	-	150	76.0	40 lb
2% Team® DG APTDGT24.3 10005688	DG Pro®	2.3	100	1.33 lb benefin 0.67 lb trifluralin	-	-	-	-	-	-	-	-	150	74.8	40 lb
5% Treflan® DG APTDG5TF4.5 10003600	DG Pro®	1.8	75	4.0 lb trifluralin	-	-	-	-	-	-	-	-	150	77.4	40 lb
5% Trammel® DG APTGL5TN4.2 10005693	DG Pro®	1.8	75	4.0 lb trifluralin	-	-	-	-	-	-	-	-	150	72.3	40 lb
Snapshot™ DG AGLSNAPDG.1 10005174	DG Pro®	3.4	150	3.0 lb trifluralin 0.75 lb isoxaben	-	-	-	-	-	-	-	-	100	47.3	25 lb
1.71% Pendimethalin DG APT8637.4 10005660	DG Pro®	2.0	88	1.50 lb pendimethalin	-	-	-	-	-	-	-	-	100	45.5	40 lb

PRE-EMERGENT HERBICIDES FOR SEEDING

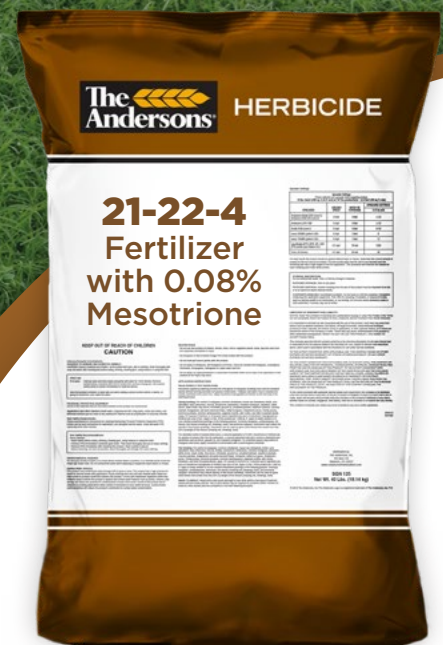
21-22-4 + Mesotrione ASP21WMSFE4 10002372	0.08% Mesotrione	4.3	187	0.15 lb mesotrione	0.9	0.95	0.17	4.5	9.1	0.6	6.8	SOP	125	40.0	40 lb
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WIN THE BATTLE AND THE WAR

ATTACK WEEDS WITH AN UNMATCHED COMBINATION

Tackling your renovation or seeding project can feel like an uphill battle against weed competition.

Take the fight straight to the weeds with 21-22-4 Fertilizer with Mesotrione. This unique combination of fertilizer and herbicide eliminates grassy and broadleaf weeds while providing a high-quality, homogenous starter fertilizer to promote seedling germination and rapid establishment.



Product (Legacy Product Code / New Product Code)	Feature	Typical Rates		Active Ingredient/A	Lbs Nutrient/M			N Sources(%)		K Source	SGN*	Density	Pkg. Wt.
		Lbs/M	Lbs/A		N	P	K	Amm N	Urea N				
TURF INSECTICIDES — AVAILABLE IN BULK BAGS													
0-0-8 + Merit® APTK8MR5.2 / 10005695	0.20% Merit®	3.5	152	0.30 lb imidacloprid	-	-	0.28	-	-	K Chloride	Standard	78.4	50 lb
15-0-4 + Merit® ASP15UMR5.5 / 10002160	25% Fortify®-N 0.20% Merit®	3.5	152	0.30 lb imidacloprid	0.53	-	0.14	-	15.00	K Chloride	Standard	63.9	50 lb
21-0-4 + Merit® ASP21UMR5.40 / 10002311	50% Fortify®-N 0.20% Merit®	3.5	152	0.30 lb imidacloprid	0.74	-	0.14	-	21.00	K Chloride	Standard	59.1	50 lb
30-0-4 + Merit® ASP30UMR5.40 / 10006095	50% Fortify®-N 0.20% Merit®	3.5	152	0.30 lb imidacloprid	1.05	-	0.14	-	30.00	K Chloride	Standard	53.6	50 lb
18-0-5 + Allectus® APT187AL5.5 / 10002380	40% NS-54™ 0.225% Allectus®	4.6	200	0.25 lb imidacloprid 0.20 lb bifenthrin	0.83	-	0.23	-	18.00	K Chloride	Standard	61.5	50 lb
21-0-7 + Allectus® APT218AL50.40 / 10005386	40% NS-54™ 0.225% Allectus®	4.6	200	0.25 lb imidacloprid 0.20 lb bifenthrin	0.97	-	0.32	-	21.00	K Chloride	Standard	57.9	50 lb
0-0-7 + Acelepryn® ASPK7AC5.1 / 10005976	0.067% Acelepryn®	3.4	148	0.10 lb chlorantraniliprole	-	-	0.24	-	-	K Chloride	Standard	80.8	50 lb
15-0-5 + Acelepryn® ASP15UAC5.40 / 10003524	50% Fortify®-N 0.067% Acelepryn®	3.4	148	0.10 lb chlorantraniliprole	0.51	-	0.17	-	15.00	K Chloride	Standard	65.2	50 lb
22-0-7 + Acelepryn® ASP22IAC51.40 / 10003491	50% NS-54™ 0.067% Acelepryn®	3.4	148	0.10 lb chlorantraniliprole	0.75	-	0.24	-	22.00	K Chloride	Standard	59.3	50 lb
26-0-6 + Acelepryn® ASP269WAC5.40 / 10006075	0.067% Acelepryn® 92% MUTech®-L	3.4	148	0.10 lb chlorantraniliprole	0.88	-	0.20	2.0	3.03	SOP	150	50.2	50 lb
22-0-6 + ProSect® APT226BF5.5 / 10005402	30% NS-54™ 0.058% ProSect®	4.0	174	0.10 lb bifenthrin	0.88	-	0.24	-	22.00	K Chloride	Standard	58.7	50 lb
12-0-0 + GrubOut® ASP12IUGB5 / 10003591	100% Fortify®-N 0.20% GrubOut®	3.5	152	0.30 lb imidacloprid	0.42	-	-	-	12.00	-	Standard	65.8	50 lb
15-0-4 + GrubOut® ASP15UGB5.40 / 10003512	25% Fortify®-N 0.20% GrubOut®	3.5	152	0.30 lb imidacloprid	0.53	-	0.14	-	15.00	K Chloride	Standard	64.1	50 lb
21-0-4 + GrubOut® ASP21UGB5.40 / 10003522	50% Fortify®-N 0.20% GrubOut®	3.5	152	0.30 lb imidacloprid	0.74	-	0.14	-	21.00	K Chloride	Standard	59.6	50 lb
0-0-7 + GrubOut® ASPK7GB5 / 10006252	0.20% GrubOut®	3.5	152	0.30 lb imidacloprid	-	-	0.24	-	-	K Chloride	Standard	78.6	50 lb
17-0-3 + GrubOut® Plus ASP178JUL5 / 10003481	50% Fortify®-N 0.24% GrubOut Plus	3.4	148	0.30 lb imidacloprid 0.06 lambda	0.58	-	0.1	-	17.00	K Chloride	Standard	62.2	50 lb
0-0-7 + GrubOut® Plus ASPK7IL5 / 10006254 While Supplies Last	25% Fortify®-N 0.20% GrubOut Plus	3.4	148	0.30 lb imidacloprid 0.06 lambda	-	-	0.24	-	-	K Chloride	Standard	79.0	50 lb

INSECTICIDES ON DG PRO®

0.2% GrubOut® DG APTDGGB40.2 / 10005682	DG Pro®	3.5	152	0.30 lb imidacloprid	-	-	-	-	-	-	150	46.0	40 lb
0.15% ProSect® on DG Pro® APTDGBF5.40 / 10005676	DG Pro®	1.5	66	0.10 lb bifenthrin	-	-	-	-	-	-	150	46.6	50 lb
DuoCide® Insect Control on DG Pro® APTDGDU4 / 10005680	DG Pro®	4.0	174	4.00 lb carbaryl 0.10 lb bifenthrin	-	-	-	-	-	-	150	47.0	40 lb
8% Carbaryl on DG Pro® APT8CR5.40 / 10005662	DG Pro®	2.4	105	8.36 lb carbaryl	-	-	-	-	-	-	150	42.2	50 lb

FUNGICIDES & GROWTH REGULATORS

 [Fungicides on our website.](#)
 [Growth Regulators on our website.](#)

Prophesy® 0.72G Fungicide on DG Pro® APTDGPZ40 / 10005686	DG Pro®	2.5	109	0.78 lb propiconazole	-	-	-	-	-	-	100	47.3	40 lb
Prophesy® 0.72G Fungicide on DG Pro® APTDGPZ2 / 10005684	DG Pro®	2.5	109	0.78 lb propiconazole	-	-	-	-	-	-	100	47.3	25 lb
3336 Granular Fungicide on DG Pro® CLETP3PRO / 10006414	DG Pro®	3.0	131	2.72 lb thiophante-methyl	-	-	-	-	-	-	150	46.6	30 lb
Governor® G ASPGR34.1 / 10005919	Pulp Carrier	1.7 - 5.2	74 - 226	0.11 - 0.34 lb trinexapac-ethyl	-	-	-	-	-	-	75	46.6	34 lb



ORGANIC PRODUCTS

Environmental sustainability is an integral part of our company mission at The Andersons.

We understand our customers' innate desire to have products which contain effective, natural, and above all, safe ingredients. We believe in creating beautiful outdoor living spaces while minimizing our impact on the planet. For those who would prefer a hybrid fertility approach, we also carry products containing both traditional and organic fertilizer sources.

Why choose OMRI (Organic Materials Review Institute) Products?

The OMRI Listed® Seal assures the suitability of products to be used for certified organic production, handling, and processing. For turfgrass managers and specialty crop growers who desire products which meet OMRI criteria, please see our designated line listing on page 21.



INTRODUCING!

BIOMEND®

Biomend fertilizers feature all natural and organic nutrient sources and contain no biosolids, manure, or wastewater byproducts. These odorless products provide both quick greening and longer-term nitrogen feeding.

7-1-2 INNOVA®

This organic fertilizer source is derived as a byproduct of soybean feed processing and yields a fertilizer high in plant-based amino acids. It is a great alternative source of nitrogen and has an ideal NPK ratio for turfgrass.

HUMIC DG™ - 75 AND 240 SGN

Humic DG is a dry humate granule featuring The Andersons' Dispersing Granule (DG) Technology to ensure maximum particle dispersion upon watering. The addition of humates into your current fertility program can increase overall plant quality and hardness.

BLACK GYPSUM DG®

Black Gypsum DG is a homogenous granular soil amendment containing gypsum, humate, and a humic acid precursor. Gypsum acts as a soil conditioner helping to 'floculate' sodic soil particles while also flushing harmful salts and excess sodium buildup. Humates and humic acid precursor aid in stimulating soil microbiology populations. This product also features DG Technology, ensuring maximum particle dispersion upon watering.

SMARTPHOS® DG 0-20-0

Phosphorus is a vital plant nutrient that is necessary for plant energy production (ATP) and root development. SmartPhos DG 0-20-0 is an OMRI Listed phosphorous fertilizer derived from rock phosphate. The addition of our patented dispersing granule (DG) carrier allows for quick product dispersion into the soil following irrigation or precipitation.

NUTRALIME® OP

Pelletized lime (calcitic limestone) provides quick pH adjustments in the soil compared to traditional dolomitic lime products. Soil pH adjustments to the 5-6 range are necessary to ensure good micronutrient availability in the soil.

NUTRASOFT® OP

Pelletized gypsum (calcium sulfate) supplies both calcium and sulfur to your plants. Gypsum also improves sodic soil structure and can aid in the flushing of harmful salt and sodium buildup.

BRIDGE PRODUCTS

Contain traditional NPK and organic fertilizers:

- 13-0-3 + 11.5% Humic DG
- 18-0-7 + 20% Humic DG **(While Supplies Last)**
- 22-0-4 with 50% HCU + 43% Black Gypsum DG



Product <small>(Legacy Product Code / New Product Code)</small>	Feature	SGN*	Typical Rates			N Composition (%)				Sources		Density	Pkg. Wt.
			Products Lbs/M	Nutrients Lbs/M	Humic DG Lbs/Acre	Nitrate N	Urea N	WIN	WSN	P	K		

SPECIALTY FERTILIZERS (OMRI LISTED)

5-5-5 Biomend® ASP5HUW50 / 10003461	Organic fertilizer with amino acids & Humic DG™	Standard	5.0 - 15.0	0.25 - 0.75 NPK	13 - 40 lbs	1.0	-	3.43	0.57	Phosphate Rock	SOP	46.8	50 lb
10-0-6 Biomend® ASPIOHUW50 / 10003462	Organic fertilizer with amino acids & Humic DG™	Standard	2.5 - 10.0	0.25 - 1.0	3.75 - 15 lb	7.2	-	2.4	0.4	-	SOP	53.8	50 lb
7-1-2 Innova® ASP7W4.1 / 10006151	Organic fertilizer with amino acids	Standard	3.75 - 10.72	0.25 - 0.75 N	-	-	-	6.0	1.0	Soybean Meal		31.0	40 lb

HUMIC ACID SOIL ENHANCERS (OMRI LISTED)

Product <small>(Legacy Product Code / New Product Code)</small>	Humic Acid Content (A&L Method)	Analysis (%)				SGN	Use Rates on Turf (per acre)	Density (lbs/ft³)	Pkg. Wt.
		Calcium Sulfate Dihydrate (CaSO₄ • 2H₂O)	Calcium (Ca)	Sulfur (S)	Soluble Potash (K₂O)				
Humic DG™ ASPHUDGGRN4 / 10005964	70%	-	-	-	-	75	40 - 200 lbs	42.0	40 lb
Humic DG™ ASPHUDG40.1 / 10005955	70%	-	-	-	-	240	40 - 200 lbs	43.0	40 lb
Black Gypsum DG® ASPGY10HUDG5 / 10005921	10%	70.0	17.0	13.0	-	240	130 - 520 lbs	56.0	50 lb
Black Gypsum DG® ASPGYHUDG5 / 10005930	21%	48.0	12.0	8.9	-	240	130 - 520 lbs	49.0	50 lb
Humic DG™ CharX® ASPBIOHU4 / 10003605	30%	-	-	-	-	210*	43 - 174 lbs	37.0	40 lb

SOIL ENHANCERS (OMRI LISTED)

Product <small>(Legacy Product Code / New Product Code)</small>	Comments	SGN*	Density	Pkg. Wt.
NutraLime® OP Hi-Mag Lime - pelletized RS/LIME4070 / 10002272	NutraLime® OP pelletized lime (calcitic limestone) provides quick pH adjustments which promote better nutrient and pesticide efficiencies. Contains 20-21% calcium and 9-12% magnesium.	Standard	70.0	40 lb
NutraSoft® OP Gypsum - pelletized RS/GYPSUM70 / 10002271	NutraSoft® OP pelletized gypsum (calcium sulfate) supplies calcium and sulfur, lessens soil compaction, increases water penetration and displaces sodium in high salt soils. Contains 21% calcium and 16% sulfur.	Standard	70.0	40 lb

FERTILIZERS WITH HUMIC DG™ (BRIDGE PRODUCTS)

Product <small>(Legacy Product Code / New Product Code)</small>	Feature	SGN*	Typical Rates			Sources		Other Nutrients (%)								Density	Pkg. Wt.
			Products Lbs/M	Nutrients Lbs/M	Humic DG Lbs/Acre	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S			
13-0-3 + 11.5% Humic DG™ ASP133HU5.40 / 10005798	53% BioSolids 25% NS-54™ 11.5% Humic DG™	Standard	4.0	0.52 N	20.0	-	SOP	1.0	-	-	-	-	1.6	3.7	48.8	50 lb	

FERTILIZERS WITH BLACK GYPSUM DG® & HCU® (BRIDGE PRODUCTS)

Product <small>(Legacy Product Code / New Product Code)</small>	Feature	SGN*	Typical Rates			Sources		Other Nutrients (%)								Density	Pkg. Wt.
			Products Lbs/M	Nutrients Lbs/M	Black Gypsum DG Lbs/Acre	P	K	Fe	Mg	Mn	Cu	Zn	Ca	S			
22-0-4 with 50% HCU® + 43% Black Gypsum DG® <small>ASP22HCUBG5.1 / 10005848</small>	50% of N from HCU® 43% Black Gypsum DG®	Standard	4.0	0.88 N	74.0	-	SOP	-	-	-	-	-	7.2	6.9	49.3	50 lb	
9-12-6 with 37% HCU® + 36% Black Gypsum DG® and SmartPhos® P <small>ASP9HCUBG5 / 10005895</small>	37% of N from HCU 36% Black Gypsum DG	Standard	4.0	0.48 P	63.0	MAP/ Stru- vite	SOP	1.0	2.0	-	-	-	6.1	6.7	54.6	50 lb	



NEVER SETTLE ON YOUR SPREADER

Designed and priced specifically for the LCO market, the LCO-1000 represents the new industry standard in lawn care spreaders. Built for **ACCURACY**, **STRENGTH**, and **DURABILITY**, applicators are quickly discovering this spreader's ability to both outperform and outlast.



LCO-1000™ SPREADER

- Durable, stainless steel frame
- 4 total grease zerks for easy lubrication
- Quick open gear housing - no tools required
- 21-inch wheel base is wider than most, providing added stability
- Unique dual rate setting mechanism accommodates both The Andersons and JDL High Wheel settings
- Optional side deflector kit available

PRODUCT CODE	ASPLCO1000
DESCRIPTION	LCO-1000™ Spreader
HOPPER CAPACITY	80 lbs (36.29 kg)
NET WEIGHT	36 lbs (16.33 kg)
PALLET COUNT	12 spreaders/pallet





EXCLUSIVE HELICAL CONE TECHNOLOGY

The Andersons Model 2000 and Model 2000 SR professional spreaders include our innovative helical cone technology. The helical cone, located above the impeller, can be adjusted to place the fertilizer at the correct location on the impeller to provide an even spread pattern. The helical cone allows for even spreading of all sizes of fertilizer granules, and it is only available from The Andersons.



MODEL 2000 SR™ PROFESSIONAL ROTARY SPREADER

- Utilizes patented “Helical Cone” technology for a superior spread pattern
- Includes side deflector shield and port shut-off for limiting spread pattern
- Heavy duty stainless steel frame tubing resists corrosion and adds rigidity
- Extra-large hopper capacity
- Extended handle
- 13” turf saver pneumatic tires
- Integrated front lift handle
- Hopper cover included
- Limited lifetime gear warranty



MODEL 2000™ PROFESSIONAL ROTARY SPREADER

- Utilizes patented “Helical Cone” technology for superior spread pattern
- Extra-large hopper capacity
- Extended handle
- Heavy duty frame tubing for extra rigidity
- 13” turf saver pneumatic tires
- Integrated front lift handle
- Hopper cover included
- Limited lifetime gear warranty

▶ For more information on our line of professional-grade spreaders, visit The Andersons Pro YouTube channel: [YouTube.com/AndersonsPro](https://www.youtube.com/AndersonsPro)

PRIZELAWN® ARC 1 ACCURATE CALIBRATOR

The Prizelawn Calibrator attaches to the spreader and collects granular materials or seeds, which can then be easily removed for weighing to determine the accuracy of the spreader setting with a given product. The ARC 1 Calibrator will fit most professional rotary spreaders.

▶ Watch our video, “**Make Calibration Simple with the Prizelawn® ARC 1 Spreader Calibrator**” on The Andersons Pro YouTube channel: [YouTube.com/AndersonsPro](https://www.youtube.com/AndersonsPro).





LIQUID ICE MELT

OUTPERFORMS

Ice Vise melts over 35% more ice at -4°F than the leading liquid deicer.

Ice Vise is a professional grade, chloride-free liquid ice melt designed to be applied to high traffic areas around commercial or residential locations including sidewalks, ramps, and steps. Applying Ice Vise during or after a winter weather event will help to deice these surfaces, providing a safer environment for walking. Ice Vise also features a low residue liquid formula that prevents it from being tracked indoors, reducing messes and damage to interior flooring surfaces, especially when compared to granular deicing products.

Ice Vise's chloride-free formula is the safest ice melt option for interior surfaces, as well as pets, kids and plants.



NO TRACKING INDOORS

A low residue formula helps prevent Ice Vise from being tracked indoors and leaving behind messy and corrosive footprints on interior flooring surfaces.



PROFESSIONAL GRADE

Has more ice melting and penetrating capabilities than the competition. Prevents refreezing down to -4°F.



SAFE FOR TURF AND PLANTS

Ice Vise's chloride-free formula is safe for use around turf and plants. It also doesn't cause burning or irritation when coming into contact with paws and skin.

AVAILABLE PACKAGING SIZES:

- 2 x 2.5 gallon
- 55 gallon drum
- 275 gallon tote

Ice Vise can be safely used on the surfaces listed below:

- Brick and stone[†]
- Wood and composite decking
- Concrete[†]
- Metal ramps
- Asphalt

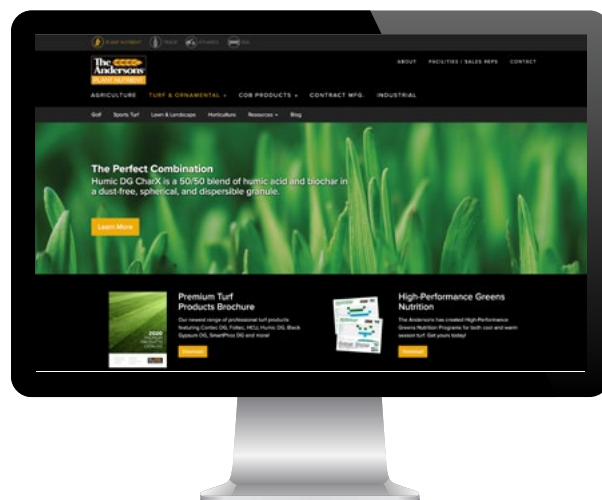
[†]Do not use on concrete or pavers installed in the last 18 months, structural concrete or specialty stone surfaces such as granite and marble.

For more information about Ice Vise, visit
AndersonsPlantNutrient.com/IceVise



WEBSITE RESOURCES

AndersonsPlantNutrient.com/Turf



PRODUCT INFORMATION

View product information, including SGN size, package weight, bulk density, and spreader settings. You can also download product sheets, labels, and SDS documents.

FACILITIES AND SALES REPS

View a map with contact information for our facilities and territory managers.

FIND A DISTRIBUTOR

Find a distributor of The Andersons products that is closest to you with contact information and links to their websites.

BLOG

Follow our blog to stay up to date with the latest product information, agronomy tips, news, and videos.

STATE REGISTRATIONS

See which of our products are registered in each state. Search by state, product, or EPA number.

CONTACT

Use this form to ask questions or request any of the following:

- Specific product sheets, labels, or SDS not listed on our Products page
- Copy of our brochures
- Product samples

CUSTOMER PORTAL

Distributors can gain access to orders, account information, and more! For more information or assistance with signing up, contact your territory manager from The Andersons.



TurfNutritionTool.com

The Turf Nutrition Tool (TNT) is a web-based platform that allows turf managers to create custom nutrition programs and model the nitrogen release of many of our most popular granular and foliar products.

Find Us on Social Media



@AndersonsTurf



AndersonsPro

ABOUT THE ANDERSONS, INC.

The Andersons, Inc. is a diversified company rooted in agriculture that conducts business in the commodity merchandising, ethanol biofuels, and plant nutrient sectors. Guided by its Statement of Principles, The Andersons strives to provide extraordinary service to its customers, help its employees improve, support its communities, and increase the value of the company.

Founded by Harold Anderson and his family in 1947 in Maumee, Ohio, and privately owned until 1996, the premise of the original organization was to make it as easy as possible for regional farmers to take their grain to market. The business model of serving others is the foundation on which the company was built. Today, The Andersons' more than 2,400 employees conduct business from over 150 locations and continue to be committed to providing extraordinary service with the utmost integrity.



Our Mission:

We firmly believe that our Company is a powerful vehicle through which we channel our time, talent, and energy in pursuit of the fundamental goal of serving God by serving others. Through our collective action, we greatly magnify the impact of our individual efforts to:

- Provide extraordinary service to our customers
- Help each other improve
- Support our communities
- Increase the value of our Company



AndersonsPlantNutrient.com/Turf
800-253-5296

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