

# HEMP

## FIBER AND SEED PRODUCTION

Hemp production methods for seed and fiber vary from production methods for cannabidiol (CBD) oil. Hemp production methods for seed and fiber are closely aligned to grain crop production methods.



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## FORTIFY THE SOIL

### Pre-Plant Nutrition

Whether grown for fiber, seed or CBD, hemp does not thrive in saturated soils, making soil health an essential part of hemp production. Revolutionary in the industry, Black Gypsum DG® granules dissolve into the soil upon contact with liquid. Black Gypsum DG combines humic acid and gypsum in one product to loosen tough soils, while also providing calcium and sulfur to the crop.

Hemp requires large amounts of nitrogen. To prepare the soil for the crop, apply 28% nitrogen solution to the soil before planting. Adding UltraMate® LQ to 28% UAN will carbon chelate the nitrogen, stabilizing it for utilization by the crop. Supplemental phosphorus and potassium should be applied based on soil test results.

PRODUCT	ANALYSIS	DESCRIPTION	APPLICATION RATE
*Black Gypsum DG*	70% calcium sulfate dihydrate - 17% Ca and 13% S	10% humic acid with calcium and sulfur	100-500 lbs/acre broadcast
28% UAN	28-0-0	28% Nitrogen	60 gal/acre
UltraMate® LQ	0-0-3 + 1.0 S	12% humic acid to stabilize nitrogen	1-2 gal/acre

\*OMRI certified - Please contact us for a full listing of our OMRI certified products.

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## FEED THE ROOTS, FEED THE PLANT

### Liquid Nutrition for Seeding

Hemp seedlings require adequate nutrition at the beginning of the season; otherwise, production may be compromised. Season Pass® with MicroCarb® Diamond will efficiently deliver key nutrients and fulvic acid to hemp seedlings.

PRODUCT	ANALYSIS	DESCRIPTION	APPLICATION RATE
PureGrade® Diamond	Multiple	100% orthophosphate low-salt, chloride-free liquid fertilizer	5 gal/acre or use 1% of total solution for transplant
MicroCarb®	0.1 B, 0.5 Mn, 0.75 Zn	Fulvic acid enriched with zinc, manganese, and boron	1-4 pts/acre

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## MAXIMIZE VEGETATIVE GROWTH

### Optimized Nutrition for Early Season Growth

Minimizing stress is essential; otherwise, hemp plants increase tetrahydrocannabinol (THC) production, often over legal limits. Feeding essential nutrients will prevent the plant from scavenging, allowing it to focus its energy on maximizing yield, while keeping THC production at bay. Nitrogen, potassium, sulfur, boron, and manganese are essential at the early vegetative stages. The combination of Over Pass® 22-0-2 and Bean Maker will safely deliver these nutrients in available forms to the plant. Including Phosfix® in the tank will also help plants overcome stress, allowing for maximized fiber and seed production and maintenance of low THC levels.

PRODUCT	ANALYSIS	DESCRIPTION	APPLICATION RATE
Over Pass® 22-0-2	22-0-2 + 1.0 S, 0.5 B (25% SRN)	Contains slow release nitrogen, sulfur, and boron	1-2 gal/acre/application
Bean Maker	3-0-15 + 1.0 Mn, 0.25 B	Source of potassium, manganese, and boron	1-2 gal/acre/application
Phosfix®	7-4-9 with micros and trace humic and fulvic acid	An early season foliar designed to relieve plant stress	1-2 pts/acre/application

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### MAXIMIZE FIBER AND SEED

#### Liquid Nutrition for Maximum Fiber and Seed Production

Managing the crop during the reproductive stages is critical to maximizing production. Prior to flowering, a suite of nutrients is required to produce fiber and seed. The combination of Korrekt® and MicroNourish® Fe will provide the required magnesium, manganese, iron, nitrogen, phosphorus, and potassium for the hemp crop to thrive. Adding UltraMate® LQ to this application will help satisfy the needs of this carbon-loving crop.

PRODUCT	ANALYSIS	DESCRIPTION	APPLICATION RATE
Korrekt®	3-0-20	Highly available mild form of liquid potassium	1-8 qts/acre/application
MicroNourish® Fe	4-0-0 + 3.0 S, 0.25 B, 1.0 Fe, 3.0 Mn, 2.0 Zn	Micronutrient package	1-3 qts/acre/application
UltraMate® LQ	0-0-3 + 1.0 S	12% liquid humic acid	0.5-3 gal/acre/application

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### PROTECT THE PLANT

#### Pest and Disease Control

The Andersons' products are designed to be added to your crop protection sprays. Always jar test for compatibility.



The program outlined by The Andersons is a general guideline based on nutrient requirements of hemp. Consult a qualified individual/institution for further guidance on incorporating these products into your fertilizer program. The Andersons is not responsible for tetrahydrocannabinol (THC) levels in hemp production where one or more of a product produced or sold by The Andersons was applied.



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The rates provided here are general. Specific recommendations must be made based on soil and tissue analyses. Always jar test for compatibility.

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