

# AGGRAND<sup>®</sup>



A COMPLETE LINE FOR  
NATURAL LAWN, GARDEN  
AND CROP CARE

- *Natural Fertilizer*

- *Natural Liquid Lime*

- *Natural Liquid Bonemeal*

- *Natural Kelp and Sulfate of Potash*

## *The Future of Natural Products Is Here Today...AGGRAND!*

Aggrand Natural Fertilizers are a safe and effective alternative to high analysis chemical fertilizers. We strive to put the highest quality ingredients into our products. Greenhouse and field experiments are conducted to validate the use of these ingredients, then we compare different fertilizer formulations and rates to compute the optimum fertility for each plant type. Finally, research is conducted to compare our fertilizer to those of our competitors. In this way we are confident that we are manufacturing the best, most effective liquid fertilizers in the industry.

### *AGGRAND Natural Liquid Lime*

AGGRAND Natural Liquid Lime is an easy, effective alternative to bagged lime for use on permanent ground covers such as turf, pastures and hay fields. This product utilizes very fine lime in a liquid suspension, which is absorbed by the leaves and roots. AGGRAND Natural Liquid Lime should be used with AGGRAND Natural Fertilizer 4-3-3 to supply additional calcium to crops such as tomatoes, potatoes, cabbage, and lettuce that need copious amounts of this vital nutrient.

Calcium is the plant's servant. It regulates opening and closing of stomates, removes toxins from the tissue, contributes to the development of shoots and roots, and keeps out unwelcome invaders.

Many acidic soils do not contain enough calcium to support prolific plant growth. When soil pH is below 6.0, plants may show signs of calcium deficiency such as yellowing of leaves, retarded growth of roots and shoots, dieback of grow-

ing tips, and premature death of older leaves. AGGRAND Natural Liquid Lime applications are the easy way to correct a calcium deficiency without tilling in bagged lime.

Soil liming must not be ignored when planting a new lawn, pasture or hay field. Soil liming increases microbial activity and the proliferation of earthworms and beneficial insects. Soil health is an on-going process; the immediate goal, however, is producing green lawns, productive pastures and high yielding hay fields that need calcium to promote prolific plant growth.



### *AGGRAND Natural Liquid Bone Meal 0-12-0*

AGGRAND Natural Liquid Bonemeal is an important part of any soil fertility and plant nutrition program. AGGRAND Natural Liquid Bonemeal contains 12% readily available phosphorus (P), which is reflected by the grade of 0-12-0 (N-P-K). Phosphorus aids in plant establishment and production of prolific blooms and high yields of top quality fruits.

AGGRAND Natural Liquid Bonemeal is recommended for application during transplanting of vegetable and flower starts, and planting of bulbs and seeds. It increases root development which produces faster growing, healthier plants. Application of AGGRAND Natural Liquid Bonemeal to carrots and potatoes increases the size and quality of the roots and tubers. Application to bulbs increases the number and size of flowers, and the bulbs can be split more frequently. Increased phosphorus availability during flowering and fruit development lengthens the flowering period and produces higher numbers of flowers and fruits.

AGGRAND Natural Liquid Bonemeal contains fast and slow release phosphorus. As a result, AGGRAND 0-12-0 applied as a starter fertilizer is readily available during early plant development, and the rest becomes available throughout the growing season. Many bonemeal fertilizers are not ground as finely as AGGRAND 0-12-0 and are released over a period of years so the phosphorus can become locked up

into an unavailable form in the soil. The fine grind of AGGRAND 0-12-0 makes it dissolve in a shorter period of time which makes it more suited to plant needs. The fineness also facilitates deeper penetration into the soil profile so it becomes available to a greater percentage of plant roots than coarser granular bonemeal products.

The fast release phosphorus in AGGRAND Natural Liquid Bonemeal makes it an excellent source for foliar feeding fruit trees, flowers, vegetables and crops that require extra phosphorus during early bud formation and fruit enlargement.

AGGRAND Natural Liquid Bonemeal also contains calcium which improves soil tilth, nutrient exchange capacity, and is useful in correcting calcium deficiencies of plants that require extra calcium such as tomatoes.

AGGRAND Natural Liquid Bonemeal is the key to early plant growth and development and super yields of high quality fruits, flowers, roots and field crops that need extra phosphorus and calcium.



## AGGRAND Natural Fertilizer 4-3-3



AGGRAND Natural Fertilizer is a multi-purpose liquid product that is ideal for all-around use on flowers, vegetables, fruits, lawns, shrubs, trees and field crops. Now, with our new odor-absorbing ingredient, AGGRAND is perfect for houseplants as well!



AGGRAND Natural Fertilizer provides nitrogen, phosphorus and potassium (N-P-K) in a 4-3-3 ratio. These essential nutrients promote vigorous growth, increased root development and improved disease and stress tolerance.

With AGGRAND Natural Fertilizer, natural ingredients are released more slowly so there is less chance of environmental impact. Adding natural ingredients to the soil increases microbial activity. Soil microbes fix the nutrients needed for plant growth and release them slowly as plants need them. On the other hand petrochemical fertilizers are often high in soluble salts that are detrimental to soil microbes and plants alike: They decrease microbial activity and plant nutrient uptake. Although these fertilizers are high analysis N-P-K, the plant-use efficiency is very low.

AGGRAND Natural Fertilizer utilizes kelp concentrate from the icy waters of the North Atlantic Ocean. Kelp accumulates high levels of plant growth hormones and nutri-

ents. When used as a fertilizer, kelp makes plants more robust and healthy by enhancing their heat, drought and cold tolerance. It also supplies N-P-K, sulfur (S), magnesium (Mg), calcium (Ca), iron (Fe), copper (Cu), zinc (Zn), manganese (Mn), boron (B), sodium (Na), carbohydrates and numerous amino acids.

AGGRAND Natural Fertilizer also utilizes hydrolyzed fish solubles extracted through low temperature processes from Menhaden fish which were used by Native Americans for centuries to grow their crops. Menhaden comes from the word "munna whaleaug" which means "that which manures." Menhaden ocean fish feed on mineral rich plankton, which makes them full of essential nutrients. The fish are steamed slowly at 190° F, which preserves the amino acids, minerals and vitamins. The fish is then broken down into smaller components with enzymes (hydrolysis). The fish component in AGGRAND Natural Fertilizer supplies N-P-K and 10 micronutrients, as well as a number of vitamins and amino acids.

Bloodmeal and sulfate of potash are combined with the fish to boost the nutrient levels in AGGRAND Natural Fertilizer. Together, the kelp, fish, bloodmeal and sulfate of potash provide all of the elements needed to grow healthy, vigorous plants. In addition to these ingredients, a number of other natural additives are included that condition the soil, reduce transplant shock and chelate the nutrients. Chelated nutrients are protected against leaching into the groundwater and are readily available for plant uptake.

AGGRAND Natural Fertilizer provides beautiful, healthy plants and super yields of high quality, nutritious vegetables, fruits and field crops.

## AGGRAND Natural Kelp and Sulfate of Potash 0-0-8

AGGRAND Natural Kelp and Sulfate of Potash is an important part of any soil fertility/plant nutrition program. It contains 8% readily available Potash, a grade of 0-0-8 (N-P-K). Potassium (K) is considered the "universal helper" and is a major contributor to plant health because it regulates so many important processes in the plant. AGGRAND Natural Kelp and Sulfate of Potash also contains 2% sulfur (S). Sulfur, called the "fourth major nutrient," has many important functions in plant growth and must be present in sufficient amounts in the soil and plant tissue to realize the benefits of nitrogen and potassium.

AGGRAND Natural Kelp and Sulfate of Potash utilizes kelp concentrate from the icy waters of the North Atlantic Ocean. Kelp from this source contains high levels of plant growth hormones, amino acids, micronutrients and potassium. When used as fertilizer, kelp makes plants more robust and healthy by enhancing their heat, drought and cold tolerance. In addition, kelp increases the plant growth rate and fruit production, size, and quality.

AGGRAND Natural Kelp and Sulfate of Potash contains minimally processed sulfate of potash from Great Salt Lake in Utah. Unlike other sources of potassium this source does not contain chloride (Cl) which can be damaging to soil life and plant roots. Potassium must be present in large quantities in plants because it is a component of the fluids which flood the plant tissue. Potassium-deficient plants are susceptible to insect attack, have weak stalks, and underdeveloped

root systems. Sufficient potassium produces high quality vegetables and tree fruits. Dark green leaves, high nutritional quality, firm stalks, prolific root growth, greater plant vigor, improved nutrient uptake, higher yields, fewer blemishes increased disease and insect resistance, and increased fruit shelf-life are benefits of crops grown with AGGRAND Natural Kelp and Sulfate of Potash.

Sulfur is often present in plants in equal or greater amounts than potassium. Sufficient sulfur produces high quality and yields of vegetables, tree fruits, small grains, legumes, and forages. High protein and oil levels in seed and high protein and vitamin A production in forages and legumes are benefits of increasing sulfur fertility.

In addition to the many benefits provided by the kelp and sulfate of potash in AGGRAND Natural Kelp and Sulfate of Potash, naturally occurring proprietary ingredients added to this fertilizer release nutrients from the soil, act as chelating agents, aid in foliar and root uptake, and stimulate soil biological activity. AGGRAND Natural Kelp and Sulfate of Potash is the key to overall plant health, quality, increased marketability, high yields and increased stress tolerance.



All AGGRAND Products provide unique features and outstanding benefits. We have yet to find products which provide the level of performance, economy, and environmental sensitivity as our AGGRAND Natural Products. Here's why:

### **AGGRAND** **Natural Fertilizer 4-3-3**



- Multi-purpose – produces excellent results on flowers, fruits, vegetables, lawns, trees, and crops.
- Effective as either a foliar feed or soil application.
- Demonstrated performance in the commercial fruit and vegetable market.
- Enhances plant vigor which contributes to disease and stress resistance.
- Convenient liquid concentrate.

### **AGGRAND** **Natural Liquid Lime**

- Uses high quality (99.6% pure) limestone in suspension.
- Extremely fine grind – twice as fine as bagged lime products.
- Specifically formulated for foliar and root applications.
- Use on lawns, pastures, and hay fields to supply calcium on acidic soils.
- Combine with AGGRAND Natural Fertilizer 4-3-3 to supply additional calcium.
- Easy to apply liquid concentrate, no dusty mess.

### **AGGRAND Natural Liquid** **Bonemeal 0-12-0**

- Provides a readily usable source of phosphorus and calcium.
- Releases slowly over the growing season.
- Perfect for all bulbs and transplants.
- Outstanding performance on root and fruit crops.
- Ideal for flowers.
- Convenient liquid concentrate.

### **AGGRAND Natural** **Liquid Kelp and Sulfate** **of Potash 0-0-8**



- Provides increased heat, cold, and drought tolerance.
- Decreases susceptibility to insect attack and infection by disease-causing organisms.
- Aids in early plant growth and development.
- Promotes early ripening, improves quality, and extends shelf-life of fruits and vegetables.
- Aids in seed formation.
- Increases oil content of seed crops.
- Increases nitrogen use efficiency.
- Increases nitrogen fixation in legumes.

