

ISO NPK®

3-1-3



ISO NPK® 3-1-3 is designed to deliver nitrogen, phosphorus and potassium efficiently to optimize nutrient levels to enhance rooting, blossoms, fruit yields and quality. Use ISO NPK® 3-1-3 FOR ORGANIC PRODUCTION in addition to a primary fertility program.

GUARANTEED ANALYSIS:

Total Nitrogen (N)	3%
3% Water Soluble Nitrogen	
Available Phosphate (P ₂ O ₅)	1%
Soluble Potash (K ₂ O)	3%

Derived from: Soy Protein Hydrolysate, Fish Protein Hydrolysate, Guayule Protein Hydrolysate, and Sulfate of Potash

F002423

Directions: For Commercial Application Only. For most crops, apply (4 oz to 16 oz./acre) 1 to 2 times per crop cycle, 7 – 21 days apart. Product can be soil applied, foliar applied, or fertigated (Drip, Sprinkler or Flood). To optimize performance for specific crops, see CROP SPECIFIC DIRECTIONS.

Hazard Classification: This product is not classified as a hazardous chemical under OSHA Hazard Communication Standard (29 CFR 1910.1200 (HCS))

Precautionary Statements: Wash face, hands and any exposed skin thoroughly after handling. Do not breathe spray. Wear protective gloves, clothing and eye protection. If swallowed, rinse mouth. Do not induce vomiting. Dispose of contents/container according to regulations.

Density: 11.09 lbs/gallon at 68°F

Net Contents and Net Weight:

___ 1 pint (497 mls); 1.39 lbs. (0.62 kgs); ___ 2.5 gallons (9.46 liters); 27.72 lbs (12.32 kg) ; ___ 275 Gallon Tote (1,041 liters); 3,050 lbs (1,355 kg)



Manufactured by: Beem Biologics, Inc. 38768 W. Farrell Road, Maricopa, AZ 85138 | Info@beemblogics.com | 520-464-9070

CROP SPECIFIC DIRECTIONS for the application of ISO NPK® 3-1-3

ALFALFA: Summer Cuttings: Apply 1-pint per acre (16oz) in spring and 1/2 pint (8oz) every other cutting to a maximum of 2 pints for crop year. A 4th application of ½ pint (8oz) per acre can be applied prior to frost. Apply as a fertigation or foliar application after cutting and removal of cut hay.

CEREAL GRAINS, such as Barley, Buckwheat, Canola, Corn, Hops, Millet, Oats, Popcorn, Rice, Rye Sesame, Sorghum, Wheat, and Wild Rice: Apply ½ to 1-pint per acre (8-16oz) as a fertigation or foliar application at tillering (3-6 leaf stage). Apply at 2-3rd Node appearance on corn and sorghum. Apply two weeks after first application. Late season, apply at Flagleaf or pre-Tassel if desired as a foliar application only. Total applications should not exceed 2 pints per acre per crop cycle.

CITRUS, such as Calmondin, Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin, Orange (sour and sweet), Pummelo, and Tangerine: Apply 1.5 pints per acre (24oz) as a fertigation or foliar application at pre-bloom or one time between full bloom and petal fall. Repeat application during the early sizing period 2 weeks after petal fall.

COTTON: Apply 1-pint per acre (16oz) as a fertigation, side dress, or foliar application at pinhead square and a second application 14-21 days later. **For In-Furrow application**, apply 4 oz to 8 oz per acre then follow with a 1-pint per acre (16 oz) application at pin square.

COLE CROPS, such as Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage (Chinese), Cauliflowers, Cavalo Bracolo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens: Apply ½ (8 oz) per acre as a fertigation or foliar application 2-3 days after transplanting or at 2-3 true leaf stage followed by a second application 10-14 days later. For heading crops such as Broccoli, Cauliflowers, and Brussel Sprouts, apply at pre-bloom and repeat application during early head sizing period for 1 additional application.

CUCURBIT VEGETABLES such as Cantaloupe, Chayote, Chinese Waxgourd, Citron Melon, Cucumbers, Gherkin, Edible Gourds, Muskmelon, Pumpkin, Summer Squash, Watermelon, and Winter Squash: Apply ¼ to ½-pint (4-8 oz) per acre as a fertigation or foliar application when plants are 3-5 leaf stage or 3-4 days after transplanting. Apply ½ to 1-pint (8-16 oz.) per acre at first flower (e.g. first male for cantaloupe). Repeat 14 to 21 days later for last application. Do Not exceed 3 pints per acre over crop cycle.

FRUITING VEGETABLES such as Eggplant, Groundberry, Pepino, Peppers (such as Bell, Chile, Pimento and Sweet Peppers), Tomatillo and Tomatoes: Apply ¼ to ½-pint (4-8 oz.) per acre as a fertigation or foliar application when plants are 4-6 leaf stage or 3-4 days after transplanting. Apply ½ to 1-pint (8-16 oz.) per acre at first flower and again 14 to 21 days later. Repeat 14 to 21 days later for a maximum of 3-pints per acre over the crop cycle.

GRAPES, such as Dried, Raisin, Seedless, and Seeded Table Grapes: Apply 1 to 2 pints (16-32 oz.) per acre as a fertigation or foliar application, not exceed 4-pints per crop cycle. For Seedless and Seeded Grapes apply after thinning and bloom set has past. Apply second application 14 – 21 days after first application, and third 14-21 days after second.

GRAPES (Wine): Apply 8 oz to 16 oz per acre as a fertigation or foliar application, followed by a second application in 14-21 days. For Seeded Grapes, apply at the start of bloom. Total applications should not exceed 2-pints per acre (32 oz) per crop cycle.

LEAFY VEGETABLES such as Amaranth, Arugula, Asparagus, Cardoon, Celery, Celuce, Chervil, Chrysanthemum, Corn Salad, Cress (garden and upland), Dandelion, Dock, Endive, Fennel, Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio, Rhubarb, Spinach, and Swiss Chard: Apply ¼ to ½-pint (4- 8 oz.) per acre by fertigation or foliar application when plants are at least 3-5 leaves or post transplanting by 3-4 days. Repeat applications every 7-14 days when growth increase is desired. NOTE: Applications in excess of 1 pint per acre can cause a delay to harvest.

PINEAPPLES: Apply 1.5-pints per acre by fertigation or foliar application 18 days after floral induction. Repeat in 30 days. Best performance is achieved with 3-pints over the crop cycle.

POME FRUIT such as Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental), Quince: Apply 8 oz to 16 oz per acre by fertigation or foliar application. Apply foliar with early sizing sprays post bloom. Repeat every 7-10 days for increase in size during the first 30 days post fruit set. Use at bloom for Crabapple pollinators. Do not exceed a total of 2-pints per acre over the crop cycle.

POTATOES, ROOT AND TUBER VEGETABLES such as Arracha, Arrowroot, Artichoke, Canna (edible), Cassava, Chayote (root), Garlic, Ginger, Onion, Potato, Sweet Potato, Tanier, Yam Bean, Yam Root Vegetables such as Beet (garden & sugar), Burdock (edible), Carrot, Celeriac, Chervil, Chicory, Ginseng, Horseradish, Parsnip, Rutabaga, Salsify, Skirret, and Turnip: Apply ½ to 1 pint (8-16oz) per acre by fertigation or foliar application at early leaf stages. Repeat applications every 14 to 21 days up to a maximum of 3-pints per acre over the crop cycle.

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STRAWBERRIES: Apply ¼ to ½-pint (4-8 oz.) per acre through fertigation every 7-14 days starting 1-week after transplanting. When flower buds begin apply ½ pint (8 oz.) by foliar or drip application every 7-14 days.

STONE FRUIT such as Apricot, Cherry (sweet & tart), Nectarine, Peach, Plum, Plumcot, Prune (dry and fresh types): A total of 3 applications is suggested. Apply 8 oz to 16 oz per acre by fertigation or foliar method at early pink or red bud stage. Apply at petal fall. Apply final application 2-3 weeks later. Do not exceed 2 pints per acre per season.

SUCCULENT, DRIED BEANS AND PEAS such as Beans (Phaseolus and Vigna spp.), Jackbean, Pea (pisum spp.), Pigeon Pea, Soybean, Sword Bean, and Dried Cultivars of Bean (lupines, Phaseolus, Vigna spp.), Broad Bean, Chickpea, Guar, Lablab Bean, Lentil and Pea: Apply ¼ to ½-pint (4 to 6 oz.) per acre at very early vegetative stages such as 3-5 trifoliates or in early reproductive stages. Repeat with 8 oz application in 14 days, if necessary. Do not apply more than 2 times per season.

TREE NUTS AND PISTACHIO, such as Almond, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory Nut, Macadamia Nut, Pecan, Walnut (Black and English), and Pistachio: Apply 1 to 2 pints (16-32 oz.) per acre by fertigation or foliar method at the "pink" stage for Almonds. Apply at early flower on other Nut and Pistachio Crops. Apply at a second application after petal fall and a third in 14 – 21 days after petal fall. Apply 3 to 4 pints per acre over the crop cycle.

TROPICAL TREE FRUITS such as Avocado, Cherimoya, Coffee, Guava, Lychee, Mango, and Papaya: Apply 1 pint (16 oz.) per acre by Foliar method at early pre-flowering to first flower. Repeat 8 oz Foliar application after petal fall. Apply 8 oz application by fertigation or foliar application prior to summer nut drop or following a cold snap or hail or excessive rains..

Contact a representative of Beem Biologics for additional information on use directions (520-464-9070) or info@beembiotics.com

Storage and Disposal: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Store in a safe manner. Store in original container only and keep tightly sealed when not in use. Dispose of unused product and empty containers in accordance with federal, state and local regulations.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

Notice: *Neither the manufacturer or the seller make any warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all responsibility for safety and use not in accordance with directions.*



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38768 W. Farrell Road
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Order and Service Desk: 520-464-9070

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