



Nature's Essence FH (2-3-1)

Nature's Essence FH is a premium liquid fish hydrolysate. It is a diverse natural fertilizer that contains N-P-K, vitamins, amino acids, enzymes, and natural growth hormones. It is made through a cold process that utilizes naturally occurring enzymes in fish. No synthetic materials are added to the hydrolysis process. Phosphoric acid is added at the end to stabilize the fish from fermenting in the container because the product is so biologically active! Once diluted in water, however, the product will quickly regain its biological activity and should be applied within a short period of time to avoid fermentation.

Fish hydrolysate has a very low odor compared to fish emulsions. The nitrogen in the fish hydrolysate is derived from proteins in the form of amino acids, which when applied break down into usable forms of nitrogen. Fish hydrolysate will promote the growth of beneficial bacteria, which fix nitrogen and aerate soil. It is filtered through 200 mesh screens to ensure no lingering particles are left that could clog any spray nozzles or drip tapes.

What is the difference between Fish Hydrolysate and Fish Emulsion?

True Fish Hydrolysate is made by grinding fresh fish fresh into very small particles and allowing their natural enzymes to break down the remains into liquid. This is done as a cold-process from start to finish, which allows the biological components to remain viable in the end product.

Fish Emulsions are typically made from the left-overs of waste fish after all of its protein components are sold to pet food industry and its oils are extracted for supplements or other products (such as Cod Liver Oil). The remains are boiled down and sold as fertilizer. The heat involved in boiling down the fish eliminates much of its biological activity and reduces its true value as a natural fertilizer. A few companies have begun to add enzymes back into the fish and then call their product a hydrolysate, but this is not truly a hydrolysate as you cannot recreate the natural aspects of any biological material by "adding something back in".

Typically you can spot a fish emulsion by its intense odor and its extra thick consistency. Fish emulsions are often difficult to pump and may clog spray nozzles or drip tapes. Our fish hydrolysate has as low an odor as is possible and will not cause problems through traditional application equipment!

Recommended rates and application timings can vary depending on the complete program in place. As a general application on turf, use 5 gallons per acre once a month. Fairways: use 2 to 4 gallons per acre every two weeks. Greens and Tees: use 4 ounces per gallon of solution applied weekly. Landscape and Ornamentals: please see our Woody Ornamental Guide for detailed uses. Typical application rates are 1-4 ounces per gallon of spray or injection solution.

Nature's Essence FH 2-3-1 Nutrient Analysis			
Nutrient	Percentage	Amino Acids	Percentage
Nitrogen	2.23	Threonine	2.29
Phosphorus	4.35	Aspartic Acid	5.41
Potassium	0.93	Serine	2.74
Calcium	0.75	Proline	3.07
Sulfur	0.17	Glutamic Acid	8.03
Magnesium	0.04	Glycine	6.22
Sodium	0.16	Alanine	4.15
Iron	26.0 ppm	Cystine	0.38
Manganese	3.0 ppm	Valine	2.17
Copper	trace	Methionine	1.81
Zinc	9.0 ppm	Isoleucine	1.6
Boron	2.5 ppm	Leucine	3.42
Molybdenum	trace	Phenylalanine	1.67
Aluminum	8.0 ppm	Lysine	4.16
		Ilistidine	1.09
		Arginine	3.74
		Hydroxproline	1.67



Nature's Essence FH 2-3-1 Fish Hydrolysate

Plant Nutrients Derived From:
Hydrolyzed Fish

Guaranteed Analysis:

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

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Contents: 55 gallons (208.2 liters)

Net Weight: 490 lbs. (222.26 kg)

Nature's Essence FH 2-3-1 is a liquid hydrolysate of fresh North Atlantic Fish. Nature's Essence FH 2-3-1 is a valuable tool in a well-balanced nutrition program for crops.

Nature's Essence FH 2-3-1 is compatible with most other liquid materials. To be safe, an initial jar test is always recommended when mixing Nature's Essence FH 2-3-1 with companion materials for the first time.

Nature's Essence FH 2-3-1 is a natural product. It should be stored in a cool, dry location out of direct sunlight. Dilute only as much concentrate as needed for each use. The oils in fish hydrolysate will naturally separate from the solids over time. Always stir, shake, or agitate the container prior to each use.

Nature's Essence FH 2-3-1 is 100% water-soluble and is suitable for conventional liquid foliar and irrigation water applications.



Description For Use:

Nature's Essence FH 2-3-1 may be applied by itself or as an additive with most companion materials. It should be used between 1 and 3 ounces per gallon of water for ornamentals and crops and up to 8 ounces per gallon of water for turf. For severely stressed plants or if the use of fish is not started until later in the season, initial applications may be made at higher concentrations as long as significant heat and drought stress are not present at the time. When applying fish on newly transplanted crops or plants of any kind (foliar, soil drenching, or any other application method) do not exceed a fish concentration of 1% in water (1.28 liquid ounces of fish per gallon of water). For general maintenance applications use 1 ounce per gallon of water and spray until run-off. Applications may be made every 2 to 4 weeks. As a general guide we recommend the following:

Spring:	
Ornamentals:	apply 2 oz per gallon of water once per month
Veggie Crops :	apply 2 oz per gallon of water twice per month
Turf and Fairways:	apply 1-3 gallons per acre twice per month
Greens and Tees:	apply 3-6 oz. per 1,000 square feet weekly
Summer:	
Ornamentals:	apply 0.5 oz per gallon of water once per month
Veggie Crops :	apply 1.5 oz per gallon of water twice per month
Turf and Fairways:	apply 1-2 gallons per acre twice per month
Greens and Tees:	apply 3-6 oz. per 1,000 square feet weekly
Fall:	
Ornamentals:	apply 3.0 oz per gallon of water once per month
Veggie Crops :	apply 3.0 oz per gallon of water once per month
Turf and Fairways:	apply 2-3 gallons per acre twice per month
Greens and Tees:	apply 4-8 oz. per 1,000 square feet weekly.

Keep out of the reach of children

Notice: It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result due to factors that are beyond the control of Organic Approach or the seller. The buyer or user shall assume all such risks.

Warranty Disclaimer: Organic Approach warrants this product conforms to the description on its label and is reasonably fit for the purposes described on its label. In no event shall Organic Approach or the seller be held liable for any incidental, consequential, or special damages resulting from the use or handling of this product. The exclusive remedy of the buyer or user for all claims shall be the return of the purchase