

# MARINER CHALLENGE

COLD PROCESSED SEAWEED

**8-32-5**

#### GUARANTEED ANALYSIS:

Total Nitrogen (N).....	8.0%
8.0% Ammoniacal Nitrogen	
Soluble Phosphate (P2O5).....	32.0%
Soluble Potash(K2O).....	5.0%
Zinc(Zn).....	0.50%

Derived from: Ammonium Poly Phosphate,  
Potassium Tri-Poly Phosphate, Phosphoric Acid,  
Zinc Sulfate and Ascophylum Nodosum

Wt per gal: 11.81 lb@68 F      1.42 Kg/Ltr @ 20 C

ALSO CONTAINS NON-PLANT FOOD  
INGREDIENTS: .25% Humic Acid (Derived from  
Leonardite)

#### DIRECTIONS FOR USE

TURF GRASSES: Apply at 2-8 oz/1000 sq. ft. in  
adequate water for sufficient coverage.

#### FIELD CROPS:

Alfalfa (hay): Apply 2 - 4 quarts per acre 5 days  
after each cutting.

Alfalfa (seed): Apply 3 - 4 quarts at pre-bloom and  
several more times at 3-week intervals.

Barley, Wheat, Small Grains: Apply 2 - 3 quarts per  
acre when plant is 10 inches, and again prior to  
heading out.

Cotton: Apply 2 quarts per acre at first true leaf.  
Repeat at first square and again at 2-week  
intervals.

Rice: Apply 2-3 quarts per acre at boot stage and  
1-2 weeks prior to bloom. Repeat again 2 weeks  
after bloom.

Tobacco: Apply 1-2 quarts per acre in transplant  
water. Apply 1-3 quarts after transplant. Repeat at  
2-3 week intervals.

#### VEGETABLE CROPS:

Artichokes, Beans, Peas, Melons, Squash,  
Cucumbers, Tomatoes, Peppers: Apply 2 - 4 quarts  
per acre at bud stage, prior to bloom and then an  
additional application every 2 weeks.

Cole Crops (Transplant and Direct Seed) : Apply 1  
- 2 quarts at 4-6 true leaf stage, 2 - 3 quarts at bud  
stage, and 2 - 3 quarts at two week intervals.

Corn: Apply 2 - 3 quarts when plant is 21 inches  
and again prior to tasseling.

Lettuce, Spinach, Celery: Apply 2 - 3 quarts after  
thinning spinach and lettuce. Apply 2 weeks after  
celery transplant. Apply again every 2 weeks  
thereafter.

Potatoes, Yams: Apply 2 - 3 quarts when plants  
are 6 inches high. Apply two more times at three  
week intervals.

Soybeans: Apply 2 - 3 quarts at bud stage and  
repeat again at pod-fill.

Other Vegetable Crops and Root Crops: Apply 2  
to 3 quarts per acre every 2 weeks after plants are  
established.

#### TREE, VINE, BERRY CROPS:

Apples and Pears: Use 2 to 4 quarts per acre at  
pre-bloom, petal fall, and once again 3-4 weeks  
later. Do not apply to Melrose Apples.,

Apricots, Cherries, Almonds, Plums, Peaches,  
Prunes, Nectarines: Apply 2-4 quarts pre-bloom.

Repeat rate after petal fall. A third application may  
be required.

Citrus: Use 4 to 6 quarts per acre at early bud  
stage, prior to bloom, and again at early fruit set  
and at fruit size. Do not combine with oils.

Boysenberries, Blackberries, Cranberries  
Blueberries, Raspberries: Apply 2 - 3 quarts / acre  
at pre-bloom and at 2 week intervals thereafter.

Grapes: Apply 1-2 quarts per acre when canes  
reach 15 - 20 inches. Apply another 2 - 3 quarts  
at pre-bloom buckshot stage and at 4-6 weeks  
prior to harvest

Pecans, Pistachios, Walnuts: Apply 3-4 quarts per  
acre at pre-bloom, and again every 4 - 6 weeks  
until 30 days prior to harvest.

Strawberries: Apply 2 - 3 quarts per acre at  
2-week intervals beginning at pre-bloom and  
continuing throughout the season.

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

#### GENERAL INFORMATION

MARINER CHALLENGE is designed to be used  
primarily for foliar application and for use on turf  
crops. It may be used as a starter fertilizer with  
seed or transplants. It may also be soil applied.  
MARINER CHALLENGE is intended to be a  
supplement to a regular fertilizer program. Rates on  
this label are for foliar application. May be applied by  
ground or air.

## WARNING



#### PRECAUTIONARY STATEMENTS

WARNING Hazardous to humans and animals. Causes eye and skin  
irritations. When mixing or applying agricultural sprays, always wear  
spray goggles and impervious gloves plus protective clothing as  
recommended on pesticide labels.

#### FIRST AID

If this product gets into the eyes, immediately wash the eyes with large  
amounts of water for at least 15 minutes, occasionally lifting the upper  
and lower lids. Obtain immediate medical treatment. If this product  
gets on the skin, immediately wash the contaminated area. Seek  
medical attention if skin irritation persists. If this product has been  
swallowed and the person is conscious, immediately give large  
volumes of water. Do not induce vomiting. Seek immediate medical  
attention.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.  
Rinse container. Empty rinsate into spray tank. Dispose of empty  
container according to approved local practices. Contact county  
agricultural commissioner for disposal information.

#### CONDITIONS OF SALE

Follow directions carefully. Timing and methods of applications,  
weather and crop conditions, mixtures with other chemicals not  
specifically recommended and other influencing factors in the  
use of this product are beyond the control of the seller. Buyer  
assumes all risks of use, storage or handling of this material not  
in strict accordance with directions given herewith.

SHAKE WELL



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