PRODUCT INFO & DATASHEET

Natural Seaweed based Biostimulant

MARE-WEED 50

Liquid natural biostimulant containing 50% w/v seaweed concentrate

05/2020

1. PRODUCT DESCRIPTION & CHARACTERISTICS & USAGE

MARE-WEED 50 contains 50% w/v seaweed concentrate produced from a cool extraction process utilising only ***Ascophyllum nodosum*** harvested from the Atlantic coastline of the British Isles. This extraction method ensures that the natural bio-stimulant growth enhancing compounds remain intact and are not denatured by heat.

MARE-WEED 50 typically contains natural auxins, cytokinins and giberellins along with alginic acid, mannitol and laminarin, typically there will be low levels of NPK, Calcium, Magnesium and Sulphur, along with trace elements Manganese, Zinc, Iron, Boron, Copper and Iodine

USAGE

MARE-WEED 50 can be used on all crops and has no statutory Harvest Interval or maximum dosage limit.
0.4 to 0.5 litres per hectare is the recommended dose rate for crops from seedling to young plant stage.
0.75 to 1.0 litres per hectare is recommended from the end of vegetative growth through to post-flowering.
A programme of applications on 10 to 14-day intervals will get the maximum benefit from **MARE-WEED 50** on edible and flower crops.

ADVANTAGES

- Earlier establishment
- Increased early rooting
- Increase in photosynthetic area
- Increased leaf and shoot growth
- Increase in plant carbohydrate production

2. CERTIFICATE OF ANALSYIS

* PHYSICAL DATA:

Appearance	:	brown liquid
Odour	:	neutral - inky
Solubility in water	:	99.5 %
Bulk Density	:	1.21 g per litre +/- 5%
pH 1:100 w/v	:	7.3 +/- 5%

* CHEMICAL DATA :		weigh/weight
Nitrogen (**N**)	:	0.27% w/w
Phosphorus (**P_2O_5**)	:	0.02% w/w
Potassium (**K_2O**)	:	6.19% w/w
Sodium	:	0.01% w/w
Sulphur **(SO_3)**	:	0.14% w/w
Calcium	:	0.13% w/w
Magnesium **(MgO)**	:	0.25% w/w
Boron **(B)**	:	0.02% w/w
Copper **(Cu)**	:	0.01% w/w
Manganese (**Mn**)	:	0.02% w/w
Zinc (**Zn**)	:	0.01% w/w
Iron (**Fe**)	:	0.01% w/w
Chloride	:	0.18% w/w

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Heavy Metal	Max amount allowed mg/kg	Actual results mg/kg
Cadmium (Cd)	3	0.088
Nickel (Ni)	120	0.05
Lead (Pb)	150	0.95
Mercury (Hg)	0.2	0.19
Chromium (Cr)	350	0.25
Arsenic (As)	10	0.031

3. GENERAL INFORMATION

MARE-WEED 50 can be used on following crops:
Avocado, citrus, apples and pears, stone fruit (peaches etc), bananas, berries (strawberries etc), kiwi, melons (watermelons, cantaloupe, etc) .

All Vegetables, including:
Asparagus, aubergine (egg plant), baby corn, beans (French, navy, lima, etc.), broccoli, Brussels sprouts, cabbage and other brassicas, carrots, celery, cucumber and other cucurbits, garlic, lettuce, okra, onions, peas, peppers, potatoes, sweet corn, tomatoes.

All Field Crops, including:
Alfalfa, barley, beans, cotton, maize, oats, oil seed rape, peas, peanuts, rice, soybeans, sugar beets, sun flowers and wheat. **Please refer to your distributor for information on other crops.**

4. APPLICATON RATES

The following are only suggested rates for application to the crops described below. In practise growers will become familiar with this product and may want to change the rates to suit there own husbandry techniques.
Always spray to run-off in sufficient water to ensure good coverage. 200-400 litres water per hectare for most crops and 2000 - 4000 litres of water per hectare for top fruit. Spray nozzle tips vary and as water is only the vehicle selected to enable an even coverage, local practise will vary considerably. Always ensure that your spray nozzle tips are clean and tested for accuracy regularly.

*** Fruit trees/Soft fruit**:
1-1.5 litres per hectare per application and some 4-5 applications can be made.

FRUIT	1st Appln.	2nd Appln.	3rd Appln.	4th Appln.
Apples & pears	**pink bud**	**full bloom**	**early fruit**ing	**21 days later**
Citrus, avocado	**3/4 days pre-bloom**	**petal fall**	**after 14 days**	**6 weeks before harvest**
Grapes, kiwi, litchi	**10-25 cm of new growth**	**early bloom**	**berry set**	**14-21 days later**
Stone fruit	**pink bud**	**full bloom**	**early fruiting**	**21 days later**
Strawberries	**at transplant* or early spring growth**	**at first sign of bloom**	**7-10 days later**	**every 21 days to mid harvest**

* Transplant dip: mix 8-10mls with 10 litres water and dip roots

*** Bananas, Oil palm, rubber:**
2.0 litres per hectare in sufficient water for adequate coverage

1st year	transplant dip, 8ml per 10 litre water	1 month after planting.	2 month after planting	3 & 4 months after planting
2nd and subsequent years	mid-late February	early-mid April	early October	

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*** Vegetables :**

0.75 – 1.0 litre per hectare	1st Appln.	2nd Appln.	3rd Appln.	4th Appln.
General rule	0.75l/ha when there is enough foliage for spraying	0.75L/ha at first signs of flowering	0.75L/ha 14-21 days later	0.75L/ha 14-21 days later
Peas, beans,	at 4-5 leaf stage	at 1st signs of flowering	at early pod initiation	
Baby corn, sweet corn	at 4-6 leaf stage	just prior to tasselling		
Cucumbers, squash, melons, egg plant, peppers	transplant dip of 8-10mls per 10 litre water	at 4-5 true leaf stage	just prior to 1st bloom	10-14 days later, and at 14 day intervals
Potatoes, sweet potatoes	a solution of 10mls per 10L as tuber dip at planting	at 3-5 leaf stage	at tubers 15-20mm in diameter	at early bloom
Tomatoes	at 15-20 cm growth	just prior to 1st bloom	repeat at 14 day intervals	
*** Flowers, Ornamentals and grass @ 0.5-1.0 L per hectare**				
Carnations, Chrysanthemums	transplant root dip of 10mls per 10L water	10 days after transplanting	repeat 10-14 days later	repeat if necessary up to blooming
Roses	transplant root dip of 10mls per 10L water	10-14 days after transplanting	repeat 10-14 days later	repeat as soon as possible after 1st cutting
Ornamentals	transplant root dip of 10mls per 10L water	10-14 days after transplanting	repeat at 2-3 week intervals	
Turf grass	apply at 1st signs of growth in spring	repeat at 21-28 day intervals	apply in autumn to improve frost hardiness.	

*** Field Crops:**

0.75-1.5 litres per hectare

Alfalfa	1.0L per hectare at 4-5 leaf stage	1.0L per hectare after 1st cut	1.0L per hectare after each cut
Cereals	0.75-1.0L per hectare at Growth Stage 21 in autumn	0.75L per hectare at Growth Stage 30	optional: 0.75l/ha at Growth Stage 51-71
Cotton	1.5L per hectare at early squaring	1.5L per hectare at first signs of flowering	1.5L per hectare 14 days later
Maize	1.0L per hectare at 4-5th leaf stage	1.0L per ha just prior to tasselling	
Oilseed rape	2L per ha at 5 leaf stage (Growth Stage 1.5)	2.5L per hectare at green bud stage (Growth Stage 3.1)	
Peanuts	2L per hectare at 4-6 leaf stage	2L per hectare at pegging	
Rice	2L per hectare at 4-6 leaf stage	2L per hectare at flag leaf emergence	
Soybeans	2-2.5L per hectare at 4-5 leaf stage	2-2.5L per hectare at first sign of flowering	
Sugar beets	2-2.5L per hectare at 4-6 true leaf stage	2-2.5L per hectare 14-21 days later	

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*** Field Transplants or addition to starter fertilizer:**
Field transplants should be dipped in a solution containing **MARE-WEED 50** plus a high phosphate fertilizer such as **SICO-PERPLEX liquid NPK 7-35-25 + CTE + +6S** or **SICOGREEN-S SUPER P45** (see label instructions). Use **MARE-WEED 50** at a rate of 1 litre per 100 litres water.
For addition to starter fertilizers use at an inclusion rate of 1 litre per 100 litres.

5. TANK MIXING COMPATIBILITY
MARE-WEED 50 should be compatible with all organic pesticides, although if an uncertainty exists carry out a jar compatibility test. Always add **MARE-WEED 50** to half filled spray tank, keep agitated and add other spray tank ingredients. If a pH problem exists with acidic mixes then the use of a recognised buffering agent is recommended.

6. STORAGE AND HANDLING
This product contains a preservative to prevent fermentation and decomposition, and should be kept out of direct sunlight and away from heat and frost. Be careful of spillage as may cause a hazard.

7. PACKING
1 litre, 5 litre, 10 litre, 20 litre, 200 litre, 1000 litre

KEEP OUT OF THE REACH OF CHILDREN
All goods supplied by us are of high grade and we believe them to be suitable for the purposes described, but as we can not exercise control over their storage, handling, mixing or use, or over weather conditions before, during or after application which may affect the performance. All conditions and warranties statutory or otherwise, as to quality or fitness for any purpose are excluded and no responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions can not be varied by our staff or agents whether or not they assist in the use of such goods.

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