

Gro Spurt

MARSHAL

PLANT GROWTH REGULATOR –WATER MISCIBLE SOLUTION

Registration Number- 20220275 -Fertilizer Act

Lot Number:

Guaranteed Minimum Analysis

Cytokinin, as Kinetin0.090%

Gibberellic Acid0.030%

Indole butyric acid0.045%

Grospurt Enterprises Inc.

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KEEP OUT OF REACH OF CHILDREN

STORE PRODUCT ABOVE 4°C (40°F)

SHAKE WELL BEFORE USING

PRECAUTIONARY STATEMENTS:

Storage: Store away from children, feed and food products.

Disposal: Dispose of contents/container in accordance with Federal, provincial and municipal regulations.

Net Volume:

Net Weight:

Lot No. _____

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 604-540-4100 (CEDA Emergency response 24-hr) for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before re-use.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Protective eyewear
- Coveralls worn over short-sleeved shirt and short pants
- Shoes plus socks
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or Viton

Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE items separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment wash waters or rinsate.

PHYSICAL AND CHEMICAL HAZARDS

FOR EMERGENCY: spill, leak, fire, exposure, or accident call

Poison control center or CEDA Emergency Response Team 24-hr Telephone number 604-540-4100

DIRECTIONS FOR USE

This product contains plant growth hormones and should be used as directed. It may prove harmful when misused. Specific instructions for use in each applicable crop type are contained in the label body under the crop type being treated

GENERAL INFORMATION

- Use only as directed. Read thoroughly and understand the label before making applications.
- Prepare solution concentrations by mixing the required amount of product with water only in a clean empty spray tank.
- Dispose of any unused spray material at the end of the day. Refer to the Storage and Disposal section of this label for product disposal instruction.
- When a range of rates is indicated, consult your local agricultural representative or a professional agricultural consultant for the best program suited to your local conditions.
- Ensure that the pH of the water is less than 8.5.
- Absorption of MARSHAL into the plant is greatest under slow drying conditions. Nighttime applications will be more effective when daytime conditions cause rapid drying. Re-apply MARSHAL if significant rain occurs within 2 hours of application.
- Air blast application: Do not direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. Do not apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.
- Do not apply by air.
- Do not apply by any irrigation system
- Consult your local agricultural representative or a professional agricultural consultant regarding the compatibility of MARSHAL with other compounds.
- Do not re-enter or allow re-entry into treated areas until 12 hours after application.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Storage: Keep containers tightly closed when not in use.

Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or puncture and dispose of in a sanitary landfill.

WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY

Grospurt Enterprises Inc. ("GROSPURT") warrants that this Product conforms to the specifications on this label. To the extent consistent with applicable law, GROSPURT makes no other warranties and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. No agent of GROSPURT or any other person is authorized to make any representation or warranty beyond those contained herein.

It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance, or other unintended consequences may result because of factors such as abnormal weather conditions, use of the Product other than in strict accordance with this label's instructions, presence of other materials, the manner of application or other factors, all of which are beyond the control of GROSPURT or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

To the extent consistent with applicable law: 1) GROSPURT disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product and 2) GROSPURT'S liability under this label shall be limited to the amount of the purchase price or, at the election of GROSPURT, the free replacement of the Product.

GENERAL INSTRUCTIONS AND EXPLANATIONS

DETERMINING OPTIMAL APPLICATION RATES

The rates on this label are ranges and an optimum MARSHAL rate will depend on desired expectations as well as physical and environmental factors. Specific growing practices such as watering, potting media, fertilization, temperature, and light conditions will affect plant responses to a given MARSHAL rate.

Results from MARSHAL applications are dependent upon timing, rate, frequency of application, and plant vigour at application. MARSHAL applications made under slow drying conditions (cool temperatures, low air movement and medium to high relative humidity) will increase absorption by the plant, thus optimizing effectiveness.

To determine optimum use rates, conduct trials on a small number of plants under actual use conditions using the lowest recommended rate. When a range of rates is indicated, use the lowest concentration recommended until familiarity is gained.

LIMITATIONS

For optimum effectiveness, thorough spray coverage must be achieved; all parts of the plant or crop must receive the spray to runoff or desired results will not occur.

Do not apply to plants under pest, nutritional, or water stress. MARSHAL will not correct or substitute for treatment of pest, nutrient, or water stresses.

Avoid drift onto non-target species. Over-application has the potential to result in undesirable accelerated plant growth/development.

MIXING INSTRUCTIONS AND RATE CONVERSION TABLE

Apply with standard spray equipment set according to manufacturer's indications.

MARSHAL mixes readily with water. For best results, have the water pH at 7.0 and always below 8.5.

Foliar Applications: Always make sure application equipment is thoroughly clean before mixing. When preparing MARSHAL for use as a foliar spray, fill tank to one half full. Add the amount of MARSHAL according to the rate conversion table below. Complete filling the tank. Dispose of any unused spray material at the end of each application following local, Provincial or Federal Law or guidelines.

ALFALFA: Established

1st Application - Apply 248 ml per hectare upon dormancy break. Apply when sufficient re-growth is present.

2nd Application - Apply 248 ml per hectare after each cutting. Apply when sufficient re-growth is present.

ALFALFA: Newly Seeded

1st Application - Apply 248 ml per hectare when seedling alfalfa is in the 3rd to 4th trifoliate stage.

BEANS AND PEAS:

1st Application - Apply 248 ml per hectare when the first trifoliate is unfolded.

2nd Application - Apply 248 ml per hectare 2 weeks after the first application.

3rd Application - Apply 248 ml per hectare at first bloom.

CANOLA:

1st Application - Apply 248 ml per hectare between the rosette stage and bolting.

2nd Application - Apply 248 ml per hectare at 20 percent bloom.

3rd Application - Apply 248 ml per hectare at early pod fill.

FIELD CORN*: Apply one, two or all of the following applications.

Apply 343 to 460 ml per hectare in-furrow or alternatively 5 cm beside and 5 cm below seed or alternatively 8 cm below the seed with a strip till machine at planting.

AND/OR

Apply 489 to 788 ml per hectare at the 3 to 10 leaf stage.

AND/OR

Apply 489 ml per hectare between initial silking and brown silk.

*For field corn grown for seed, apply 343 to 460 ml per hectare in-furrow or alternatively 5 cm beside and 5 cm below seed or alternatively 8 cm below the seed with a strip till machine at planting.

NOTE: If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, or side dress application.

SWEET CORN AND POPCORN: Apply one, two, or all of the following applications.

Apply 343 to 460 ml per hectare in-furrow or alternatively 5 cm beside and 5 cm below seed or alternatively 8 cm below the seed with a strip till machine at planting.

AND/OR

Apply 248 ml per hectare when the plants are in the 4-6 leaf stage.

AND/OR

Apply 248 ml per hectare at the 8-10 leaf stage. **NOTE:** If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, side dress or mark out application.

FLAX:

1st Application - Apply 248 ml per hectare when the plant is 5-10 cm tall.

2nd Application - Apply an additional 248 ml per hectare 2 to 3 weeks later.

GRAIN SORGHUM:

1st Application - Apply 343 to 460 ml per hectare in-furrow or alternatively 5 cm beside and 5 cm below seed or alternatively 8 cm below the seed with a strip till machine at planting.

2nd Application - Apply 248 ml per hectare at the 3-5 leaf stage.

3rd Application - Apply 248 ml per hectare after the 8th but before the 12th leaf stage.

NOTE: If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, side dress or mark out application.

PEANUTS:

1st Application - Apply 248 ml per hectare at the 3-5 leaflet stage.

2nd Application - Apply 248 ml per hectare at early flowering.

3rd Application - Apply 248 ml per hectare at initial pegging.

4th Application - Apply 365 ml per hectare during early pod fill.

SOYBEANS: Apply according to one of the following schedules.

1) Apply 248 ml per hectare at the 3-5 trifoliolate leaf stage. Apply a second application of 248 ml per hectare between R1 and R3.

2) If the first application is missed, apply 489 ml per hectare between R1 and R3.

SUGARBEETS:

In-Furrow or Mark Out:

Apply 343 to 460 ml per hectare in-furrow or mark out.

Foliar program:

1st Application - Apply 248 ml per hectare between the 2nd and 10th true leaf stage.

2nd Application - Apply 248 ml per hectare 2-3 weeks after the first application.

NOTE: If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, side dress or mark out application.

SUNFLOWERS:

Apply 248 to 307 ml per hectare in-furrow at planting.

AND/OR

Apply 248 ml per hectare at 4-true leaves.

AND/OR

Apply an additional 248 ml per hectare two to three weeks later.

WHEAT, BARLEY, OATS, AND RYE: Apply according to one of the following schedules.

1) Apply 343 to 460 ml per hectare in-furrow at planting.

OR

2) If no at-planting application, apply 248 ml per hectare prior to jointing. Apply 248 ml per hectare at the flag leaf stage. **NOTE:** If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, side dress or mark out application.

WHITE OR RED POTATOES:

Apply 343 to 460 ml per hectare in a band, mark out, side dress or in-furrow application before or after planting.

NOTE: If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, side dress or mark out application.

For foliar applications, apply according to one of the following schedules:

To increase tuber size number and promote better rooting:

1st Application - Apply 248 ml per hectare at tuber initiation.

2nd Application - Apply 248 ml per hectare 2-3 weeks after the first application. The last application should be during tuber bulking.

OR

To enhance tuber size and uniformity:

1st Application - Apply 248 ml per hectare at tuber initiation.

2nd Application - Apply 248 ml per hectare at the onset of tuber bulking.

SWEET POTATOES AND YAMS:

1st Application - Apply 15 to 29 ml per hectare on a band just wide enough to cover all the plants 7 - 14 days after transplanting.

2nd Application - Apply 36.5 ml per hectare in a band as above at 28 days after transplanting.

3rd Application - Apply 3 ml per week along with a foliar fertilizer such as 15-5-5 at the rate of 2.3 liters per hectare. Continue this program on a weekly basis until the potatoes have desirable harvest size.

NOTE: If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, side dress or mark out application.

SEED TREATMENT

SPECIAL NOTE FOR ALL DIRECT SEEDED CROPS

Acting through its unique combination of plant growth regulators, MARSHAL is a ready-to-use seed dressing that aids in enhancing germination and early season root and top growth.

Use MARSHAL SL at the rate of 31 – 124 ml per 45.4 kg of seed. Use the higher rate when conditions favor poor germination such as cool soil temperatures or low germination seed. Sufficient water needs to be added to insure uniform coverage. Improper coverage will minimize product performance.

SEED TYPES Alfalfa	Corn	Peanuts	Sorghum	Sunflowers
Barley	Dry Beans	Peas	Soybeans	Wheat
Canola	Oats		Rye	Sugarbeets

NOTE: If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, side dress or mark out application.

RED OR WHITE POTATOES: Choose one of the following methods:

Dip potato seed pieces in a solution of 1 part MARSHAL to 355 parts water for 30 to 60 seconds or spray seed pieces with the above solution so that seed pieces are covered and thoroughly wetted. MARSHAL can be used with a fungicide program.

OR

Use 14.8 to 31 ml (volumetric measurement), which equals 15.8 to 32.2 grams on a dry basis of MARSHAL per 45.4 kg of cut seed pieces. Treat seed pieces immediately after they have been cut. Apply so that the cut seed pieces are thoroughly covered. MARSHAL can be mixed with other seed treatments and carriers such as fir and alder bark to insure uniform coverage.

NOTE: If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, side dress or mark out application.

SWEET POTATOES AND YAMS:

Dip potato slips in a solution of 1 part MARSHAL to 355 parts water for 30 to 60 seconds. MARSHAL can be used with a fungicide program.

NOTE: If seed has been treated with MARSHAL, do not apply MARSHAL as an in-furrow, band, side dress or mark out application.

MECHANICAL SEED TREATERS

Apply the appropriate amount of MARSHAL to a premeasured amount of seed and mix thoroughly until all seed are uniformly coated. Seed can be treated in this manner and stored until used for planting. Do not use treated seed for food, feed or oil purposes. An approved dye must be added to distinguish MARSHAL treated seed and prevent inadvertent use for food, feed or oil purposes. Seed treated with this product must be labeled in accordance with all applicable requirements of the Federal seed law.

BROADCAST SEED APPLICATION

Partially fill broadcast spreader with a premeasured amount of seed. Apply the appropriate amount of MARSHAL diluted with water on the surface of the seed. Mix with a stick or paddle until all seed are coated. Repeat procedure until broadcast spreader is filled. **DO NOT USE TREATED SEED FOR FOOD, FEED OR OIL PURPOSES.** Treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting

