

FLOURISH Plant Growth Regulator Supplement

Biostimulant for germination, early emergence & root development

What FLOURISH Does

- *Promotes early plant emergence in cool conditions*
- *Promotes root growth and seedling development*
- *Can be tank-mixed and applied with in-furrow fertilizers*
- *Multiple methods: in-furrow, seed treatment, transplant, banded or broadcast/foliar*

Product Overview

FLOURISH is a plant biostimulant used to:

- Improve the germination of seed
- Promote early plant emergence in cool conditions
- Promote root growth and seedling development

Key Product Details

- **Product Type:** Plant Growth Regulator Supplement (biostimulant)
- **Classification:** Commercial – registered under the Fertilizer Act
- **Active Ingredients:** Cytokinin (as kinetin) 0.09 g/L; Indolebutyric Acid 0.05 g/L; Gibberellic Acid (A3) 0.05 g/L
- **Note:** FLOURISH is not a fertilizer and contains non-plant-food ingredients – use in combination with a good fertilizer program

Best Practices for Use

- **Calibrate equipment** – improper application can injure the crop or reduce performance
- **Jar-test tank mixes** before mixing with fertilizers or other products
- **Apply mixes within 1 day** – in-furrow fertilizer mixes must be applied within 24 h with agitation maintained
- **Clean equipment** with a strong detergent or sprayer cleaner before and after use
- **Use spray and stock solutions within 24 hours** of mixing

Crops Listed on the Label

- **Field crops:** Alfalfa, Sugar Beets, Canola, Corn, Flax, Peanuts, Rice, Sorghum, Soybeans, Tobacco, Wheat, Barley, Oats & Rye
- **Vegetables:** Beans, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Sweet Corn, Cucumbers, Lettuce, Melons, Onions, Peppers, Potatoes, Squash, Tomatoes
- **Small fruits & vines:** Grapes, Strawberries
- **Young trees, ornamentals, shrubs & flowering plants**
- **Sod, turf & golf courses** (greens, tees, fairways)

Tank Mixing & Compatibility

- Soluble in water; can be mixed directly into many liquid fertilizers for in-furrow use at planting
- Can also be applied in tank mixes as foliar sprays
- ⚠ Conduct a jar test first; follow the most restrictive tank-mix label. Do not tank mix with products whose label prohibits it.
- ⚠ This product cannot be used to formulate or reformulate any other fertilizer product.

Net Contents

- 10L*2 jugs
- 115L drums
- 500L IBC totes
- 1000L IBC totes

Application Guidelines

Water volume — Apply by ground or air. By air: 20–50 L water/ha. By ground: 50–235 L water/ha. For turf grass: 0.76–1.9 L water per 93 m² (1,000 ft²). Rates in the tables below are millilitres of FLOURISH per hectare unless otherwise noted, reproduced from the product label (Tables 1–6).

Table 1 — Field Crops

CROP	No. of Apps	In-Furrow	Transplant Water	Banded	Broadcast / Foliar	Application Timing
Rate (mL / hectare) by type of application — unless noted						
Alfalfa (established)	1 or more	—	—	—	300–440	Make first application after dormancy break when sufficient regrowth is present. A subsequent application can be made following each cutting once sufficient regrowth is present.
Alfalfa (newly seeded)	1	—	—	—	300–440	Apply when seedling alfalfa is in the 3rd to 4th trifoliate stage.
Beets, Sugar	1	150–585	—	585	1170	6–8 leaf stage.
Beets, Sugar	2–3	—	—	300	585	Make first application at 2-leaf stage. Repeat applications can be made on 7–14 day intervals.
Canola	3	150–585	—	300	440	Make first application at 3–5 leaf stage. Repeat applications can be made on 10–14 day intervals.
Canola	1	150–585	—	365	440–585	2–6 leaf stage.
Corn	1	—	—	300	585	Apply during flowering from initiation of flowering to end of bloom stage.
Flax	2	—	—	—	300–440	Make first application when plants are 5–10 cm tall. A second application can be made 2–3 weeks after the first application.
Peanuts	4–6	150–585	—	220	300	An early application may be made at 3–4 true leaf stage. Subsequent applications should begin approximately 30 days after planting and may be repeated on 7–14 day intervals.
Rice	1	—	—	—	585	Make application at 2–5 leaves or at panicle initiation.
Rice	2	—	—	—	300	Make application at 2–5 leaves and/or at panicle initiation.
Sorghum	1	150–585	—	365	585	Make application at 2–6 leaf stage.
Soybeans	1	150–585	—	365	585	Make application at V4–V8 (3–7 trifoliate).
Soybeans	2	—	—	300	300	Make application at V4–V8 (3–7 trifoliate). Repeat applications can be made on 10–17 day intervals.
Tobacco	2	—	150–585	365	585	Make first application approximately 40 days after planting. A second application can be made following topping.
Wheat, Barley, Oats, Rye	1–2	150–585	—	440	585	Apply at tillering in the fall and/or spring. A second application can be made when 2 to 3 leaves have formed on main stem.

Table 2 — Vegetable Crops

CROP	No. of Apps	In-Furrow	Transplant Water	Banded	Broadcast / Foliar	Application Timing
Rate (mL / hectare) by type of application — unless noted						
Beans	1	150–585	—	300	585	Make application between 3rd trifoliate leaf stage and flower bud formation.
Beans	2–3	—	—	220	300	Make first application at 3rd trifoliate leaf stage. Repeat applications can be made on 7–10 day intervals.
Beans	4–6	—	—	150	220	Make first application at 2nd trifoliate leaf stage. Repeat applications can be made on 7–14 day intervals.
Broccoli	3	150–585	150–585	300	440	Make first application at 4–5 leaf stage. Repeat applications can be made on 10–14 day intervals.
Brussels Sprouts	3	150–585	150–585	300	440	Make first application at 4–5 leaf stage. Repeat applications can be made on 10–14 day intervals.
Cabbage	3	150–585	150–585	300	440	Make first application at 4–5 leaf stage. Repeat applications can be made on 10–14 day intervals.
Cauliflower	3	150–585	150–585	300	440	Make first application at 4–5 leaf stage. Repeat applications can be made on 10–14 day intervals.
Corn, Sweet	1	150–585	—	365	585	Make application at 2–6 leaf stage.
Corn, Sweet	2 or more	—	—	220	300	Make first application at 2–6 leaf stage. Repeat applications can be made on 7–21 day intervals through end of tasseling.
Cucumbers	1	150–585	150–585	300	585	Make application between flower bud initiation and first bloom.
Cucumbers	2–3	—	—	220	300	Make first application between flower bud initiation and first bloom. Repeat applications can be made on 7–10 day intervals.
Cucumbers	3–4	—	—	220	300	Transplants: first application at transplanting. Direct-seeded: first application at 3–4 leaf stage. For both methods, repeat applications can be made on 7–10 day intervals.

FLOURISH Technical Data Sheet

CROP	No. of Apps	In-Furrow	Transplant Water	Banded	Broadcast / Foliar	Application Timing
<i>Rate (mL / hectare) by type of application — unless noted</i>						
Lettuce	3	150–585	150–585	300	440	Make first application at 4–5 leaf stage. Repeat applications can be made on 10–14 day intervals.
Lettuce	1	–	–	300	585	Make application between flower bud initiation and first bloom.
Melons	2–3	150–585	150–585	220	300	Make first application at flower bud initiation. Repeat applications can be made on 7–10 day intervals.
Melons	4–6	–	–	150	220	Make first application 2 weeks after emergence. Repeat applications can be made on 7–14 day intervals.
Onions	3	150–585	–	300	440	Make first application 2 weeks after emergence. Repeat applications can be made on 10–14 day intervals.
Peppers	4–6	150–585	150–585	220	300	Transplants: first application at transplanting. Direct-seeded: first application at 3–4 leaf stage. For both methods, repeat applications can be made on 7–14 day intervals.
Potatoes	1	150–585	–	585	1170	Apply at tuber initiation.
Potatoes	3	–	–	300	585	Make first application at stolon formation (8–10 leaf stage). Repeat applications can be made on 10–14 day intervals.
Squash	1	150–585	–	300	585	Apply between flower bud initiation and first bloom.
Squash	2–3	–	–	220	300	Make first application at flower bud initiation. Repeat applications can be made on 7–10 day intervals.
Squash	4–6	–	–	150	220	Make first application 2 weeks after emergence. Repeat applications can be made on 7–14 day intervals.
Tomatoes	1	150–585	150–585	300	585	Apply between flower bud initiation and first bloom.
Tomatoes	2–3	–	–	220	300	Make first application at flower bud initiation. Repeat applications can be made on 7–10 day intervals.
Tomatoes	4–6	–	–	150	220	Make first application 2 weeks after emergence. Repeat applications can be made on 7–14 day intervals.

Table 4 — Small Fruits, Vines & Tree Fruits

CROP	No. of Apps	In-Furrow	Transplant Water	Banded	Broadcast / Foliar	Application Timing
<i>Rate (mL / hectare) by type of application — unless noted</i>						
Grapes	1 or more	–	–	–	150–585	Make applications beginning at bud break. Repeat applications can be made every 7–21 days through veraison.
Strawberries	3–6	–	–	150	300	Make first application at 1st bloom. Repeat applications can be made every 14–28 days for a total of 3 to 6 applications.

Table 5 — Young Trees, Ornamental, Sod & Turf

CROP	No. of Apps	In-Furrow	Transplant Water	Banded	Broadcast / Foliar	Application Timing
<i>Rate (mL / hectare) by type of application — unless noted</i>						
Shrubs, Established	2–3	–	–	–	30 mL / 7.6 L water	Spray foliage with a solution of FLOURISH (30 mL FLOURISH / 7.6 L of water) to the point of run-off. May be applied to shrubs 2–3 times per year to increase vigour, growth and healthy appearance.
Flowering plants (Roses, Azaleas, etc.)	1	–	–	–	–	Once per year, mix 120 mL of stock solution in 3.8 L water. Apply the 3.8 L mix around the rooting zone of the plant, preferably in spring. (Stock solution = 30 mL of FLOURISH / 29 L water.)
Sod*	1	–	–	–	585	Apply as a broadcast application to improve growth and rooting.
Sod*	2	–	–	–	300	Apply 300 mL/ha after harvest to speed up regrowth. A repeat application may be made 6 weeks after the first to continue to boost regrowth.
Turf*	1–2	–	–	–	65 mL / 500 sq m	After sod/turf has been laid, apply 65 mL / 500 sq m to help with root growth. A repeat application can be made 30 days after the first.

*DO NOT apply this product through any type of irrigation system for use in sod or turf.

Table 6 — Golf Courses

CROP	No. of Apps	In-Furrow	Transplant Water	Banded	Broadcast / Foliar	Application Timing
<i>Rate (mL / hectare) by type of application — unless noted</i>						
Greens	1 or more	–	–	–	65 mL / 500–650 sq m	Apply an initial treatment of FLOURISH at 65 mL / 500–650 sq m to promote root development and protect against “winter kill.”
Greens		–	–	–	30 mL / green	Subsequent applications of 30 mL of FLOURISH / green may be applied every 30 days to help maintain healthy root growth.

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CROP	No. of Apps	In-Furrow	Transplant Water	Banded	Broadcast / Foliar	Application Timing
Rate (mL / hectare) by type of application — unless noted						
Tees	1 or more	—	—	—	15 mL / 110–140 sq m	Apply FLOURISH at 15 mL / 110–140 sq m to maintain healthy root growth. Repeat applications can be made every 30 days.
Fairways	1–2	—	—	—	585	Make 2 applications of FLOURISH at 585 mL/ha the first year. Then make 1–2 applications of 585 mL/ha per year in subsequent years.

In-Furrow, Seed Treatment & Transplant Directions

- **In-furrow (Table 3):** 150 to 585 mL/ha for all field & vegetable crops with an in-furrow entry. Apply at planting in the seed furrow, or 5 cm beside and 5 cm below the seed, or with a strip-till machine 7.0–8.0 cm below the seed. If seed has already been treated with FLOURISH, do not also apply in-furrow.
- **Seed treatment:** Apply 60 to 120 mL per 45 kg of seed. Dilute with water and mist the seed while mixing; do not store the seed wet.
- **Transplant solution:** Add 30 mL of FLOURISH per 7.6 L of water. Dip/spray bare roots or root balls, lightly mist foliage, or apply 3.8 L of stock solution in-furrow per acre.
- **Safety:** Keep out of reach of children. Wear long-sleeved shirt, long pants, shoes plus socks when handling. Store in tightly closed containers; do not subject to freezing. Do not apply directly to water or where runoff is likely.

FLOURISH is not a fertilizer; this product contains non-plant-food ingredients – use in combination with a good fertilizer program. Use of this product must be in accordance with its label. Always read and follow the most up-to-date label before application.

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