OBJECTIVE/BENEFIT

APPLICATION TIMING

USE RATE/ACRE

Best response occurs when average daily temperatures are between 40° F - 60° F and adequate moisture and nutrition are present.

Spring Application: 1 - 3 applications every 3 - 4 weeks starting at green up after 1 - 2 inches of new shoot growth has emerged.

Autumn Application: 1 - 3 applications every 3 - 4 weeks starting when forage growth has slowed due to cool temperatures.

PASTURES & FORAGE – FIELD USES

• Plants will not respond when the ground is frozen.
• Once plants are at their maximum growth rate under optimal temperatures application of RyzUp SmartGrass will not stimulate additional growth.
• Foliage occasionally and temporarily appears lighter green in color due to accelerated growth rates following application. For best results, ensure fertility is adequate to sustain additional pasture growth.

NOTE:

Vetch, clover, cowpea, oats, rye, (such as barley, (California))

Perennial Forage

• Plants will not respond to treatment without adequate moisture or if under pest and/or nutritional stress.
• Foliage occasionally and temporarily appears lighter green in color due to accelerated growth rates following application. For best results, ensure fertility is adequate to sustain additional plant growth.

COVER CROPS – FIELD USES

• RyzUp SmartGrass has been shown to enhance the effects of certain herbicides containing dicamba or heat or drought.

TEMPERATE FIELD CROPS – FIELD USES

PRODUCTS THAT WORK, FROM PEOPLE WHO CARE IS A TRADEMARK OF VALENT USA LLC.

RyzUp SmartGrass is a registered trademark of Valent BioSciences LLC.

Note: Differences in response by variety may be large. Caution should be used when using on untested varieties.

EPA Est. No. 33762-IA-001

WARNING: USE ONLY AS DIRECTED. UNAUTHORIZED USE MAY BE ORTHODOX OR CRIMINAL.

Keep out of reach of children.

For Medical and Transportation Emergencies

KEEP OUT OF REACH OF CHILDREN

For use, storage or handling not in strict accordance with accompanying directions.

Warranty and Disclaimer Statement

Products That Work, From People Who Care is a trademark of Valent U.S.A. LLC.
Application Instructions:

• Apply RyzUp SmartGrass at the rate of 0.5 lb. of active ingredient per acre as a single application. Do not exceed one application per year.

• Use a self-propelled or tractor-mounted sprayer with a nozzle size of 300 to 350 and a pressure of 25 to 30 psi. Do not spray on the ground when the drone is hovering or raising the nozzle to any height.

• Position the nozzle 1 to 2 feet above the ground and adjust the drift to ensure coverage of the area to be treated. Do not use a boom or other equipment to apply the product. Do not spray over the ground when the drone is hovering or raising the nozzle to any height.

• Avoid drift or accidental application to other crops.

Compatibility:

• RyzUp SmartGrass is compatible with many other pesticides, but it is important to test the mixture on a designated area as it may result in phytoxicity or ineffectiveness. For further information, consult your local Valent representative.

• RyzUp SmartGrass can be tank mixed with water-soluble granule containing gibberellic acid, but it is not recommended to tank mix with any other products. Always consult the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, large tank mix. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Heat, separation, gelling, are all signs of incompatibility. Before using any mixes that pass the jar tests for compatibility, it is imperative to test the mixture on a designated area as it may result in phytoxicity or ineffectiveness.

STORAGE AND DISPOSAL

• Keep containers tightly closed when not in use.

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

• Wastes resulting from the use of this product must be disposed of on site or at an appropriate disposal facility.

• The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

• The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent fluid from entering or leaving the injection pipeline.

• The irrigation pipeline must contain a functional, automatic, quick closing check valve to prevent water source contamination from backflow.

• The flow of fluid back toward the injection pump.

• The system must be decontaminated with a system interlock.

• The pesticide distribution is adversely affected.

• The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water supply tank is less than 25% full or the irrigation system is either automatically or manually shut down. The system must be decontaminated with a system interlock.

• Public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary decontamination operations. The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in moving systems). The irrigation system, when shut down, should be applied at the end of water application (prior to last complete cycle in
Hold eye open and rinse slowly and gently with water for 15-20 minutes.

• Shoes plus socks.
• Long-sleeved shirt and long pants.

Personal Protective Equipment (PPE)

If in eyes:
• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Caution: Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

Users should:
• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
• Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport clothing.

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

ENVIRONMENTAL HAZARDS

STORAGE AND DISPOSAL

• RyzUp SmartGrass

Application Instructions:

Use only as directed. Read the label thoroughly and make sure it is understood before making applications.

• Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm or plunger pump). If a metering pump is equipped with an automatic, quick closing check valve, it must be located on the irrigation pipeline to prevent water source contamination from backflow.
• The system must contain functional interlocking controls to automatically shut off the pesticide injection pipeline with a system interlock.

Compatibility:

When considering tank mixing with other products, use the following compatibility jar test:

1. Fill the supply tank with the desired amount of water and begin agitation. Agitation should be maintained using appropriate methods.
2. Add the required amount of the tank mix into the supply tank and agitate until thoroughly dispersed.
3. Add the remaining amount of product into the supply tank and agitate until thoroughly dispersed. Repeat this procedure two more times. Then offer for recycling or dispose of in a sanitary landfill, or incinerate.

Pesticide Disposal:

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

• No preharvest interval is required for this product.

Pesticide Storage:

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

• Start with a clear glass or plastic quart jar. Add water from the same water source that will be used for the spray mix. The water must meet the requirements of Title 40, Code of Federal Regulations (CFR) Part 180.400.
• For most efficacious results, use water with a pH of 4.0 - 8.5. Use buffer for water with pH above or below this range.
• Applications made under slow drying conditions (cool to warm temperatures, medium to high relative humidity, and no wind) will increase absorption of the active ingredient by the plant, thus optimizing effectiveness.
• Use water with a pH of 4.0 - 8.5. Use buffer for water with a pH above or below this range.

SPRAY GUIDELINES

Compatibility:

When considering tank mixing with other products, use the following compatibility jar test:

1. Fill the supply tank with the desired amount of water and begin agitation. Agitation should be maintained using appropriate methods.
2. Add the required amount of the tank mix into the supply tank and agitate until thoroughly dispersed.
3. Add the remaining amount of product into the supply tank and agitate until thoroughly dispersed. Repeat this procedure two more times. Then offer for recycling or dispose of in a sanitary landfill, or incinerate.

Pesticide Disposal:

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

• No preharvest interval is required for this product.

Pesticide Storage:

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

• Start with a clear glass or plastic quart jar. Add water from the same water source that will be used for the spray mix. The water must meet the requirements of Title 40, Code of Federal Regulations (CFR) Part 180.400.
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• Use water with a pH of 4.0 - 8.5. Use buffer for water with a pH above or below this range.
**PANTONE 348**

**OBJECTIVE/BENEFIT**

- **USE RATE/ACRE**
  - 7.5 - 27.5 g product
  - 0.3 - 1.0 oz product
  - 5 - 15 g product
  - 2 - 6 g a.i.

**APPLICATION TIMING**

- **Spring Application**: 1 - 3 applications every 3 - 4 weeks starting at green up after 1 - 2 inches of new shoot growth has emerged.
- **Autumn Application**: 1 - 3 applications every 3 - 4 weeks starting when forage growth has slowed due to cool temperatures.

**CROP/VARIETY**

- **Cool season conditions limit growth rates.**
- To stimulate dry matter production for cereals and dry matter production for annual forage and cool season conditions limit growth rates.
- **Best response occurs when average daily temperatures are between 40° F - 60° F and adequate moisture and nutrition are present.**

**STAGES**

- **Apply during early tillering growth stages prior to stem elongation to avoid lodging. Application to cereal grains during stem elongation (jointing onwards) can result in lodging. Apply during early tillering growth stages prior to stem elongation to avoid lodging.**

**PASTURES & FORAGE – FIELD USES**

- **Best response occurs when average daily temperatures are between 40° F - 60° F and adequate moisture and nutrition are present.**
- **If applying to over-seeded pasture or newly established pasture, apply only after seedlings are well established.**
- **Apply 1 - 6 applications every 3 - 4 weeks from autumn to early spring during periods of suboptimal growth due to cool conditions.**

**COVER CROPS – FIELD USES**

- **RyzUp SmartGrass is compatible as a tank-mix partner with Roundup and improving soil tissue in the cover crop has enhanced effects on glyphosate resistant crops.**
- **Foliage occasionally and temporarily appears lighter green in color due to accelerated growth rates following application. For best results, ensure fertility is adequate to sustain additional pasture growth.**

**FIELD USES**

- **RyzUp SmartGrass has been shown to enhance the effects of certain herbicides containing dicamba or HPPD inhibitors could result in temporary injury on corn. Users should be aware that these effects may occur before applying RyzUp SmartGrass in combination with herbicides containing either dicamba or HPPD inhibitors.**
- **Plants will not respond to treatment without adequate moisture or if under pest and/or nutritional stress.**
- **CAUTION: Differences in response by variety may be large. Caution should be used when using on untested varieties. Consult your Valent representative.**

**FOLIAGE**

- **To increase pod set and bio-mass and stimulate young plants.**
- **To maintain yields in cane in older production tissue is essential. Make applications in 20 - 40 gallons water/A.I. Complete coverage of leaf tissue is essential. Make applications in 20 - 40 gallons water/A.I. Total application(s).**
- **Apply at V2 - V6 - V5 - R3: Make a single application in soybeans.**
- **2 - 6 g a.i. 2 - 50 g Product 1 - 20 g a.i. 0.1 - 0.2 oz product 0.1 - 0.5 oz product 0.2 - 0.4 oz product 2 - 4 g a.i. 2 - 50 g product 1 - 20 g a.i. 0.1 - 0.2 oz product 0.1 - 0.5 oz product 0.2 - 0.4 oz product**

**CAUTION**

- **KEEP OUT OF REACH OF CHILDREN**
- **List No. 60218-04-03**
- **Note: Differences in response by variety may be large. Caution should be used when using on untested varieties. Consult your Valent representative.**

**ACTIVE INGREDIENT**

- **Active Ingredient:**
  - 60.0% w/w
**OBJECTIVE/BENEFIT**

Promote early season

**APPLICATION TIMING**

**USE RATE/ACRE**

40.0% w/w

(such as barley, Grasses Perennial Forage CROP/VARIETY cool season conditions limit growth rates.

To stimulate dry matter production for grazing, hay, green chop or silage when

Best response occurs when average daily temperatures are between 40° F - 60° F and adequate moisture and nutrition are present.

Application to cereal grains during stem elongation (jointing onwards) can result in lodging. Apply during early tillering growth

Autumn Application: 1 - 3 applications every 3 - 4 weeks starting when forage growth has slowed due to cool temperatures.

Spring Application: 1 - 3 applications every 3 - 4 weeks starting at green up after 1 - 2 inches of new shoot growth has emerged.

If applying to over-seeded pasture or newly established pasture, apply only after seedlings are well established.

Autumn Application: 1 - 3 applications every 3 - 4 weeks starting when forage growth has slowed due to cool temperatures.

NOTE:

radish)

vetch, clover, cowpea, and Legumes

Annual Grasses

• Plants treated at maximum physiological size will not respond with additional growth.

• Plants will not respond to treatment without adequate moisture or if under pest and/or nutritional stress.

(CROP/VARIETY)

• RyzUp SmartGrass is compatible as a tank-mix partner with Roundup® herbicide on glyphosate resistant

- corn. Use of RyzUp SmartGrass with other tank-mix partners is done solely at the user's risk.

- • Plants will not respond to treatment without adequate moisture or if under pest and/or nutritional stress.

- For best results, ensure fertility is adequate to sustain additional plant growth.

- effects may occur before applying RyzUp SmartGrass in combination with herbicides containing either
dicamba or HPPD inhibitors on hybrids with a known sensitivity to these classes of herbicides.

- Users should be aware that these effects may occur before applying RyzUp SmartGrass in combination with herbicides containing either
dicamba or HPPD inhibitors could result in temporary injury on corn. Users should be aware that these

- seedling vigor

- increase the growth of

- To increase pod set and

- To increase yield and help

- in soybeans.

- • RyzUp SmartGrass is compatible as a tank-mix partner with Roundup®

- • Plants will not respond to treatment without adequate moisture or if under pest and/or nutritional stress.

- To enhance post-emer

- Note: Differences in response by variety may be large. Caution should be used when using on untested va

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- To increase pod set and

- To increase yield and help

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- increase the growth of

- To increase pod set and

- To increase yield and help

- in soybeans.
Active Ingredient:
Gibberellin A₃ ...................... 40.0% w/w
Other Ingredients .................. 60.0% w/w
Total ............................. 100.0% w/w
Contains a total of 1 g of Gibberellic Acid in 2.5 g
of product.

KEEP OUT OF REACH OF CHILDREN
CAUTION

For MEDICAL and TRANSPORT Emergencies ONLY Call
24 Hours A Day 1-800-892-0099.
See succeeding panel for First Aid, additional Precautionary Statements, Directions for Use and Storage/Disposal Statements.
(This container will treat 3.0 acres at the maximum use rate, as directed for use on forage grasses.)

Valent BioSciences LLC
870 Technology Way
Libertyville, IL 60048 U.S.A.

For Organic Production

Net Contents: 3.0 oz

EPA Reg. No. 73049-1
EPA Est. No. 33762-IA-001
List No. 60218-04-03

Valent BioSciences
Prepared by
MOTT GRAPHICS
LIST NO. 60218-04-03
COMMODITY NO. A50410334/R9
LABEL EDITOR C Kelly
DATE 02-19-19
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COLOR SEPARATIONS BLACK VARNISH