Sumagic®
PLANT GROWTH REGULATOR

For Commercial Greenhouse Use Only

Active Ingredient
*Uniconazole-P .............. 0.055%

Other Ingredients ............. 99.945%

Total .......................... 100.000%

*(E)-(S)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl)pent-1-en-3-ol

Contains 0.064 fl oz active ingredient per gallon (0.5 g/litre).

EPA Reg. No. 59639-37
EPA Est. 33762-IA-1

KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS
1 GALLON (3.785 Litres)

(01) 0 06 53204 07048 7
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION
Causes eye irritation. Avoid contact with eyes, skin and clothing.

FIRST AID
If in eyes: 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: Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice.
Have person sip a glass of water if able to swallow.
Do not induce vomiting unless told to do so by a poison control center or doctor.
Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air.
If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and other handlers must wear:
• long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, and shoes plus socks.
Follow 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.

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

ENVIRONMENTAL HAZARDS: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE
It is a violation of federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL AND PRODUCT. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.
Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY, AND LIMITATION OF LIABILITY
IMPORT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT, rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT
The Buyer and User (referred to collectively herein as “Buyer”) of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pests or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil composition, diseases, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, or a combination of such factors of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY, AND LIMITATION OF LIABILITY
To the extent consistent with applicable law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY, AND LIMITATION OF LIABILITY
(continued)
Plant response to Sumagic Plant Growth Regulator is strongly influenced by cultural and environmental variables such as growing media, water/fertilizer management, temperature, light, growing house composition, and other cultural practices. Plant/container size and cultivar or variety can also affect height. First time users of Sumagic Plant Growth Regulator should treat a limited number of plants at the lowest rate. Rate adjustments may then be made according to plant response. Sequential applications of lower rates may be made as necessary.

Decisions regarding application of Sumagic Plant Growth Regulator may be made using the Graphical tracking technique developed at Michigan State University. Graphical tracking is a grower management tool where over time actual plant height or development is compared with desired plant height or development. The technique involves plotting plant height onto a graph once or twice a week and making height control decisions after comparing actual and target heights.

APPLICATION INFORMATION

Sumagic Plant Growth Regulator may be applied through four different application methods: Foliar Spray, Drench, Bulb or Cutting Dip, and as a Pre-Plant Application to the Soil Surface.

Sumagic Plant Growth Regulator is an extremely active plant growth regulator. Caution must be exercised in measuring, diluting, and applying Sumagic Plant Growth Regulator. Excessive doses will result in severe growth retardation and possible adverse effects on flowering, plant appearance, quality and marketability.

Differences in plant response to Sumagic Plant Growth Regulator due to plant surface area in relation to soil surface area are possible. Extreme temperatures can influence plant response to Sumagic Plant Growth Regulator.

Apply Sumagic Plant Growth Regulator during morning or late afternoon hours, or when plants are not under environmental stress. Sumagic Plant Growth Regulator retards elongation almost immediately after application. Assessment of rate response for most species can be made within five to seven days after treatment. If desired results are not evident, reaplication or an increased rate may be warranted.

Temperature and light level are important factors in determining the proper use rate, control rate of Sumagic Plant Growth Regulator. In general lower rates and fewer applications are required for plants grown in lower temperatures/higher light intensity and higher rates and/or more applications are required for plants grown in high temperatures/higher light intensity. Data from experiments used to make recommendations found in this label were generated in northern and southern climates for most plant species.

Cultural practices may affect the plants response to Sumagic Plant Growth Regulator. Plants which are grown at close spacing or in small pots and using high water and fertility levels may require an increase in the amount of Sumagic Plant Growth Regulator needed. The media in which the plants are grown can influence the effectiveness of plant growth regulator drench applications. Sumagic Plant Growth Regulator drench applications will be less active in growing media with a high amount of pine bark.

Different varieties or cultivars within a given plant species may require a higher or lower rate of Sumagic Plant Growth Regulator. Taller, more vigorous varieties generally require more chemical than do the shorter, less vigorous varieties. Growers should consult with plant and seed suppliers for vigor and other growth characteristics for newly released varieties.

FOLIAR APPLICATIONS

Apply foliar applications with standard spray equipment. Effective dose is strongly dependent on application volume. Plant response can vary if a given rate is applied at different spray volumes. Uniformity of spray is equally important. Except where noted, uniformly apply 2 quarts of formulation to 1000 square feet of surface area.

Applying foliar applications of Sumagic Plant Growth Regulator to plants on water collectors or on sub-irrigation benches may lead to more growth reduction than desired due to Sumagic Plant Growth Regulator being taken up through the soil with the irrigation water. When making applications under these conditions, the rate of application may need to be reduced.

PRE-PLANT APPLICATION TO SOIL SURFACE

Sumagic Plant Growth Regulator may be applied to the soil surface prior to planting. A pre-plant soil surface spray often results in more uniform plant height. Sumagic Plant Growth Regulator is readily absorbed by roots and translocates in xylem tissue to the plant terminals. In general, only one half or less of the typical foliar spray rate will be required when spraying Sumagic Plant Growth Regulator on the soil surface prior to transplanting plugs. The required rate will vary across plant species, and the grower should conduct trials on a small number of plants under actual use conditions to determine the optimum rate. Soil media can strongly influence response to Sumagic Plant Growth Regulator. Soil media high in pine bark may require higher rates. Research conducted to support this application technique was conducted under normal surface irrigation, not sub-irrigation.

DRENCH APPLICATIONS

Drench application allows a more uniform application of Sumagic Plant Growth Regulator resulting in more uniform height control. Sumagic Plant Growth Regulator is readily absorbed by the roots and translocated in xylem tissue to terminals. Growing media should be moist but not wet at time of drench application. This may be achieved by watering the day before application. Response may vary if the media is too dry to allow for even distribution at application.

Generally, 4 fl oz of drench solution is required for a 6 inch pot. For larger or smaller pots, adjust volume up or down depending on pot size. A suitable drench volume is application of enough solution to achieve total run through of no more than 10%, assuming that soil media is properly moist prior to application (example: if 4.0 fl oz of drench solution is applied, no more than 0.4 fl oz should run through the bottom of pot). Growers should determine proper volume per pot on pot sizes other than 6 inches by conducting small trials on a few plants with water.

PRE-PLANT BULB SOAKS

Bulb soaks are an effective and economical method of reducing height of bulb crops. This method allows for a uniform application of Sumagic Plant Growth Regulator prior to planting. In general, bulbs are soaked in a solution of Sumagic Plant Growth Regulator for 1 to 5 minutes and then planted. Please see section titled ‘Bulb Crops’ for further information.

DETERMINING OPTIMUM RATES OF APPLICATION

The rates on this label are rate ranges and should be used only as a guideline. Optimum Sumagic Plant Growth Regulator rates depend on the desired final size and many physical and environmental factors. Specific growing practices such as watering, potting media, fertilization, temperature and light conditions will also affect the growth response to a given rate. When using Sumagic Plant Growth Regulator on plants not specifically listed on the label, use the following table as a guideline to determine a starting point. To determine optimum use, conduct trials on a small number of plants under actual use conditions using the lowest rates.
### Trial Rate Table (PPM)

<table>
<thead>
<tr>
<th>Plant Type</th>
<th>Spray</th>
<th>Surface</th>
<th>Drench</th>
<th>Bulb Soak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bedding Plants</td>
<td>1 to 50</td>
<td>0.5 to 20</td>
<td>0.1 to 2</td>
<td>n/a</td>
</tr>
<tr>
<td>Bedding Plant Plugs</td>
<td>0.5 to 10</td>
<td>0.5 to 10</td>
<td>Do not use</td>
<td>n/a</td>
</tr>
<tr>
<td>Foliage/Potted Crops**</td>
<td>5 to 40</td>
<td>0.5 to 10</td>
<td>0.1 to 1</td>
<td>n/a</td>
</tr>
<tr>
<td>Herbaceous Species</td>
<td>20 to 50</td>
<td>1.5 to 20</td>
<td>0.5 to 2</td>
<td>n/a</td>
</tr>
<tr>
<td>Woody Species</td>
<td>10 to 50</td>
<td>1 to 20</td>
<td>1 to 2</td>
<td>n/a</td>
</tr>
<tr>
<td>Bulb Crops</td>
<td>2.5 to 20</td>
<td>0.5 to 10</td>
<td>1 to 3</td>
<td>1 to 10</td>
</tr>
</tbody>
</table>

*Bedding plant plugs can be especially sensitive to Sumagic plant growth regulator.**Annual or perennial

### Precautions
- Do not exceed maximum application rate for any use.
- Do not apply Sumagic Plant Growth Regulator under conditions that can cause drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.
- Avoid spray drift onto non-target species.
- Do not apply directly to soil or to plants/pots in direct contact with soil in Greenhouses with soil flooring of high porosity and low organic content.
- This product has a potential to leach into groundwater or to contact with soil in Greenhouses with soil flooring of high porosity and low organic content. Avoid spray drift onto non-target species.
- Do not apply directly to soil or to plants/pots in direct contact with soil in Greenhouses with soil flooring of high porosity and low organic content.
- This product has a potential to leach into groundwater or to run off into surface water.

### Application
- Do not mix Sumagic Plant Growth Regulator activity. Do not mix Sumagic Plant Growth Regulator with pesticides, fertilizers, wetting agents, spreader stickers or other adjuvants.
- Do not apply Sumagic Plant Growth Regulator to any food crops, except for these authorized crops: eggplant, groundcherry, pepino, pepper, tomatillo and tomato.
- Do not reuse soil from plants treated with Sumagic Plant Growth Regulator.

### Mixing Instructions and Rate Conversion Table
Sumagic Plant Growth Regulator mixes readily with water. **FOLIAR AND SOIL SURFACE APPLICATIONS:** Always make sure equipment application is thoroughly clean before mixing. When preparing Sumagic Plant Growth Regulator for use as a spray, fill tank to one half full. Shake Sumagic Plant Growth Regulator container well before using. Add the needed amount of Sumagic Plant Growth Regulator according to the Rate Conversion Table below. Complete filling the tank. **DRENCH AND BULB DIP APPLICATIONS:** Add the needed amount of Sumagic Plant Growth Regulator to the appropriate volume of water for use as a drench or dip solution.

### Rate Conversion Table

<table>
<thead>
<tr>
<th>PPM*</th>
<th>ML/L</th>
<th>ML/GAL</th>
<th>FL OZ/GAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>8</td>
<td>0.26</td>
</tr>
<tr>
<td>2.5</td>
<td>5</td>
<td>19</td>
<td>0.6</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>23</td>
<td>0.8</td>
</tr>
<tr>
<td>5</td>
<td>10</td>
<td>38</td>
<td>1.3</td>
</tr>
<tr>
<td>10</td>
<td>20</td>
<td>76</td>
<td>2.5</td>
</tr>
<tr>
<td>15</td>
<td>30</td>
<td>114</td>
<td>3.8</td>
</tr>
<tr>
<td>20</td>
<td>40</td>
<td>151</td>
<td>5.1</td>
</tr>
<tr>
<td>25</td>
<td>50</td>
<td>189</td>
<td>6.4</td>
</tr>
<tr>
<td>30</td>
<td>60</td>
<td>227</td>
<td>7.7</td>
</tr>
<tr>
<td>35</td>
<td>70</td>
<td>285</td>
<td>9.0</td>
</tr>
<tr>
<td>40</td>
<td>80</td>
<td>303</td>
<td>10.2</td>
</tr>
<tr>
<td>45</td>
<td>90</td>
<td>341</td>
<td>11.5</td>
</tr>
<tr>
<td>50</td>
<td>100</td>
<td>379</td>
<td>12.7</td>
</tr>
<tr>
<td>75</td>
<td>150</td>
<td>588</td>
<td>19.2</td>
</tr>
</tbody>
</table>

*All PPMs are as active ingredient.

### Fruit Vegetables
Fruiting vegetable transplants are typically grown at high densities, which limit penetration of light into the canopy. Therefore, transplants often have elongated, weak stems that are easily damaged. This can result in significant damage to plants during shipment and decrease their marketability. Application of Sumagic Plant Growth Regulator results in compact transplants with thicker stems that are less likely to be damaged during shipment and are much more appealing to consumers.

### Rate Table

<table>
<thead>
<tr>
<th>Fruiting Vegetable Transplants</th>
<th>Spray Concentration Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sumagic</strong></td>
<td>FL OZ/GAL</td>
</tr>
<tr>
<td>0.5 to 10</td>
<td>ML/GAL</td>
</tr>
<tr>
<td>2 to 10</td>
<td>PPM</td>
</tr>
</tbody>
</table>

### Precautions
- Do not reuse soil from plants treated with Sumagic Plant Growth Regulator.**Annual or perennial
- Do not apply Sumagic Plant Growth Regulator under conditions that can cause drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.
- Avoid spray drift onto non-target species.
- Do not mix Sumagic Plant Growth Regulator activity. Do not mix Sumagic Plant Growth Regulator with pesticides, fertilizers, wetting agents, spreader stickers or other adjuvants.
- Do not apply Sumagic Plant Growth Regulator to any food crops, except for these authorized crops: eggplant, groundcherry, pepino, pepper, tomatillo and tomato.
- Do not apply directly to soil or to plants/pots in direct contact with soil in Greenhouses with soil flooring of high porosity and low organic content. Avoid spray drift onto non-target species.
- Do not apply directly to soil or to plants/pots in direct contact with soil in Greenhouses with soil flooring of high porosity and low organic content. Avoid spray drift onto non-target species.
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### Notes
- Certain varieties such as Suxipil and Freedom are more sensitive to Sumagic Plant Growth Regulator than others and should be treated with the lowest rate for each growing region.
- Do not apply Sumagic Plant Growth Regulator to Poinsettia trees after October 25.
- Poinsettia trees for use in Florida only.
- Drench Application: Optimum rates for drench applications to Poinsettia have not been determined. Users can conduct trials based on rates in the section titled "Determining Optimum Rates."**Annual or perennial
- Do not apply Sumagic Plant Growth Regulator under conditions that can cause drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.
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Note:**Annual or perennial

### Fruiting Vegetables
- Do not reuse soil from plants treated with Sumagic Plant Growth Regulator.**Annual or perennial
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- Avoid spray drift onto non-target species.
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### Fruiting Vegetables
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- Do not apply Sumagic Plant Growth Regulator to any food crops, except for these authorized crops: eggplant, groundcherry, pepino, pepper, tomatillo and tomato.
- Do not apply directly to soil or to plants/pots in direct contact with soil in Greenhouses with soil flooring of high porosity and low organic content. Avoid spray drift onto non-target species.
- Do not apply directly to soil or to plants/pots in direct contact with soil in Greenhouses with soil flooring of high porosity and low organic content. Avoid spray drift onto non-target species.
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**BEDDING PLANTS (ANNUAL AND PERENNIAL)**

**IMPORTANT:** Some of the data for perennial bedding plants was generated in southern climates where more Sumagic Plant Growth Regulator is required for growth control. In more northern climates, application rates of 3 to 5 ppm (with multiple applications as needed) are commonly used to achieve desired results on many types of annual and perennial plants. First time users of Sumagic Plant Growth Regulator should make single or sequential applications at the lowest labeled rate to determine optimum dose for specific cultivars under local conditions.

Do not use on Begonias as they are exceptionally sensitive to Sumagic Plant Growth Regulator. Extreme care should be exercised to avoid spray drift onto Begonia cultivars.

**FOLIAR SPRAY:** Foliar applications of Sumagic Plant Growth Regulator will provide growth reduction in most commonly grown bedding plants when applied at 1 to 5 ppm. The rate per area for some specific common bedding plants is listed below.

Apply Sumagic Plant Growth Regulator as a foliar spray as plant elongation begins (plant height approximately 2 to 4 inches). See Notes section for additional instructions on Periwinkle and Pansy. See Geranium section for further instructions. Timing may vary with species, and the user should determine the appropriate growth stage for specific cultivars and environmental conditions. When applying to plants at the shortest growth stage (2 inches), use the lowest rate. Use rates listed below and apply uniformly at a spray volume of 2 qts per 100 sq ft of bench area. Multiple applications of lower rate may be applied as necessary.

**RATE TABLE (continued)**

### GROWING REGION SPRAY CONCENTRATION RANGE RATE TABLE (continued)

<table>
<thead>
<tr>
<th>PLANT</th>
<th>FL OZ/GAL</th>
<th>ML/GAL</th>
<th>PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollyhock</td>
<td>1.3 to 10.2</td>
<td>38 to 303</td>
<td>5 to 40</td>
</tr>
<tr>
<td>Impatiens</td>
<td>1.3 to 2.6</td>
<td>38 to 76</td>
<td>5 to 10</td>
</tr>
<tr>
<td>Marigold**</td>
<td>2.6 to 5.1</td>
<td>76 to 151</td>
<td>10 to 20</td>
</tr>
<tr>
<td>Pansy</td>
<td>0.26 to 1.5</td>
<td>8 to 46</td>
<td>1 to 6</td>
</tr>
<tr>
<td>Periwinkle</td>
<td>0.26 to 0.8</td>
<td>8 to 23</td>
<td>1 to 3</td>
</tr>
<tr>
<td>Petunia**</td>
<td>6.4 to 12.8</td>
<td>189 to 379</td>
<td>25 to 50</td>
</tr>
<tr>
<td>Portulaca</td>
<td>3.8 to 7.7</td>
<td>114 to 227</td>
<td>15 to 30</td>
</tr>
<tr>
<td>Purple Coneflower</td>
<td>7.7 to 10.2</td>
<td>227 to 303</td>
<td>30 to 40</td>
</tr>
<tr>
<td>Salvia</td>
<td>1.3 to 2.6</td>
<td>38 to 76</td>
<td>5 to 10</td>
</tr>
<tr>
<td>Shasta Daisy</td>
<td>3.8 to 7.7</td>
<td>114 to 227</td>
<td>15 to 30</td>
</tr>
<tr>
<td>Snapdragon**</td>
<td>6.4 to 12.8</td>
<td>189 to 379</td>
<td>25 to 50</td>
</tr>
<tr>
<td>Speedwell (Veronica)</td>
<td>5.1 to 10.2</td>
<td>151 to 303</td>
<td>20 to 40</td>
</tr>
<tr>
<td>Verbena</td>
<td>3.8 to 7.7</td>
<td>114 to 227</td>
<td>15 to 30</td>
</tr>
<tr>
<td>Viola</td>
<td>0.26 to 1.3</td>
<td>8 to 38</td>
<td>1 to 5</td>
</tr>
</tbody>
</table>

* Seed Propagated
** Multiple applications may be necessary.

### DRENCH APPLICATION: Optimum rates for drench applications to bedding plants have not been determined. Users can conduct trials based on rates in the section titled ‘Determining Optimum Rates’.

**NOTES:**
- Some bedding plants are extremely sensitive to Sumagic Plant Growth Regulator. When using for the first time on a particular bedding plant, treat only a small number of plants and observe for activity.
- For use on bedding plants not specifically listed, determine optimum rate by treating a small number of plants with 1 to 50 ppm as a foliar spray. Try low rates first. Rates may then be decreased or increased to achieve the desired effect. Timing of the first application should begin when new growth reaches 2 to 4 inches with most species. Cultivars within the same species may respond differently to a given rate of Sumagic Plant Growth Regulator – dwarf cultivars generally require lower rates than tall cultivars (e.g., Marigolds).
- On plants that are more sensitive to Sumagic Plant Growth Regulator, multiple applications of lower rates often gives more satisfactory results than a single application of a higher rate. For example, make two applications of 5 ppm instead of one application of 10 ppm.
- Some bedding plants have shown improved color and overall appearance following use of Sumagic Plant Growth Regulator, even when growth retardation was not evident.

**Bedding Plants:**

<table>
<thead>
<tr>
<th>PLANT</th>
<th>FL OZ/GAL</th>
<th>ML/GAL</th>
<th>PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ageratum</td>
<td>0.8 to 1.5</td>
<td>23 to 46</td>
<td>3 to 6</td>
</tr>
<tr>
<td>Coleus</td>
<td>3.0 to 2.6</td>
<td>38 to 76</td>
<td>5 to 10</td>
</tr>
<tr>
<td>Dahlia</td>
<td>0.2</td>
<td>6</td>
<td>0.75</td>
</tr>
<tr>
<td>Geranium</td>
<td>1.3 to 2.6</td>
<td>38 to 76</td>
<td>5 to 10</td>
</tr>
<tr>
<td>Impatiens</td>
<td>0.5 to 1.3</td>
<td>16 to 38</td>
<td>2 to 5</td>
</tr>
<tr>
<td>Lobelia</td>
<td>1.3 to 2.6</td>
<td>38 to 76</td>
<td>5 to 10</td>
</tr>
<tr>
<td>Marigold</td>
<td>0.5 to 1.0</td>
<td>16 to 32</td>
<td>2 to 4</td>
</tr>
<tr>
<td>Pansy</td>
<td>1.3 to 2.6</td>
<td>38 to 76</td>
<td>5 to 10</td>
</tr>
<tr>
<td>Petunia</td>
<td>1.3 to 2.0</td>
<td>38 to 57</td>
<td>5 to 7.5</td>
</tr>
<tr>
<td>Salvia</td>
<td>2.6 to 5.1</td>
<td>76 to 151</td>
<td>10 to 20</td>
</tr>
<tr>
<td>Snapdragon</td>
<td>0.26 to 0.5</td>
<td>8 to 16</td>
<td>1 to 2</td>
</tr>
<tr>
<td>Vinca</td>
<td>0.13 to 0.2</td>
<td>4 to 6</td>
<td>0.5 to 0.75</td>
</tr>
</tbody>
</table>

**BULB CROPS**

**IMPORTANT:** Test on a small number of all new cultivars before widespread use to determine appropriate rates and timing under your growing conditions. Repeat applications of lower rates may be necessary, and may sometimes yield superior results in a single application of a higher rate. Cooler growing climates should utilize the lower rate, and if necessary a second application may be made.

**GRAPHICAL TRACKING:** Decisions regarding application of Sumagic Plant Growth Regulator to bulb crops may be made using the Graphical Tracking technique. Graphical Tracking is a grower management tool where time over actual plant height or development is compared with desired plant height or development. The technique involves plotting plant height onto a graph once or twice a week and making height control decisions after comparing actual and target heights.

**FOLIAR SPRAY:** Treat bulb type crops with Sumagic Plant Growth Regulator when shoots average 3 inches tall. Use an uniform spray volume of 2 qts per 100 sq ft of bench area. If a second application is made, it should be applied when shoots average 6 inches tall. Applications made after visible bud may adversely affect flowering.

**Note:** Usually, two applications of a foliar spray at a lower rate are more effective than one application at a higher rate.

**DRENCH APPLICATION:** Drench applications are very effective for controlling height in bulb crops and provide a uniform and precise application method. Application should be made to most bulb type crops when newly emerged shoots are 1 to 2 inches tall.

**Note:** For drench applications, apply 4 ft oz of solution to a 6 inch pot. Adjust volume according to pot size. Soil should be moist but not wet at time of application. Drench applications made early in the plant growth cycle generally cause a greater growth response than do later applications.

**BULB SOAK:** Treatment soak time should range from 1 to 5 minutes. Soak time will vary depending on bulb size, variety, cultivar, and desired final height. Lower rates may require longer soak times (5 to 10 minutes) while higher rates require shorter soak times (1 minute).
**RATE TABLE**

**FOLIAR SPRAY**

<table>
<thead>
<tr>
<th>BULB TYPE</th>
<th>CONCENTRATION PPM</th>
<th>FOLIAR SPRAY CONCENTRATION RATE</th>
<th>ML/GAL</th>
<th>PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asiatic Hybrid Lilies</td>
<td><strong>2.5 to 10</strong></td>
<td>Not Determined*</td>
<td><strong>1 to 10</strong></td>
<td></td>
</tr>
<tr>
<td>LA Hybrid Lilies</td>
<td><strong>2.5 to 20</strong></td>
<td>1</td>
<td><strong>3 to 10</strong></td>
<td></td>
</tr>
<tr>
<td>Oriental Hybrid Lilies</td>
<td><strong>2.5 to 10</strong></td>
<td>Not Determined*</td>
<td><strong>1 to 10</strong></td>
<td></td>
</tr>
</tbody>
</table>

* Rates for these use have not been determined. Users should run trials using rates recommended in the ‘Determining Optimum Rates’ section.

**NOTE:**

- For bulb crops not listed (Tulip, Daffodil, Hyacinth, etc.), users should conduct trials on a small scale using rates recommended in the ‘Determining Optimum Rates’ section.
- Effectiveness of height control for Bulb Crops varies greatly by cultivar more so than for non-bulb ornamental flowers. It is strongly suggested that growers conduct small scale trials with any bulb type crop before widespread use.
- Depending on cultivar and type of Sumagic Plant Growth Regulator, a touch-up spray may be desirable for control of late season stretch in certain Hybrid Lilies.

**GERANIUMS (PELARGONIUMS)**

**FOLIAR SPRAY – SEEDED GERANIUMS:** Apply Sumagic Plant Growth Regulator as a foliar spray when plant height is approximately 4 inches. Apply 0.5 to 1.8 fl oz/gal (16 to 32 ml/gal, 2 to 4 ppm) as a uniform spray at a volume of 2 qts per 100 sq ft of bench area.

**FOLIAR SPRAY – VEGETATIVELY PROPAGATED GERANIUMS:** Apply Sumagic Plant Growth Regulator as a foliar spray on an as needed basis once the growth of cuttings begins (dependent on growth rate and cultivar). Apply 0.8 to 2.0 fl oz/gal (22 to 81 ml/gal, 3 to 8 ppm) as a uniform spray at a volume of 2 qts per 100 sq ft of bench area. Choice of rate is dependent on growth rate. Use of 6 ppm or higher may delay flowering of some cultivars.

**EASTER LILIES**

**IMPORTANT:** The use rates for Sumagic Plant Growth Regulator on Easter Lilies were developed with plants grown under positive DIF temperature conditions (higher day temperature than night temperature). Easter Lilies grown under negative or zero DIF temperature conditions may require lower rates and fewer applications of Sumagic Plant Growth Regulator. Application of Sumagic Plant Growth Regulator may reduce the water requirement for Easter Lilies.

**GRAPHICAL TRACKING:** Decisions regarding application of Sumagic Plant Growth Regulator to Easter Lilies may be made using the Graphical Tracking technique. Graphical Tracking is a grower management tool where over time actual plant height or development is compared with desired plant height or development. The technique involves plotting plant height onto a graph once or twice a week and making height control decisions after comparing actual and target heights.

**FOLIAR SPRAY:** Treat Easter Lilies with 0.8 to 3.8 fl oz/gal (23 to 114 ml/gal, 3 to 15 ppm) Sumagic Plant Growth Regulator when shoots average 3 inches tall. Use a uniform spray volume of 2 qts per 100 sq ft of bench area. Make only one foliar application of Sumagic Plant Growth Regulator per crop.

**SOIL DRENCH:** All states except Florida: Apply Sumagic Plant Growth Regulator when shoots average 3 inches tall. Use a solution concentration of between 0.06 and 0.13 fl oz/gal (equal to 1.9 to 3.8 ml/gal or 0.23 to 0.5 ppm). Apply 4.0 oz of diluted solution to each pot. Use lower rates on shorter cultivars such as ‘Nellie White’ under cooler conditions, and higher rates on taller cultivars such as ‘Ace’ under warmer conditions. Avoid late season applications. Florida only: 0.11 to 0.22 fl oz/gal (equal to 3.2 to 6.4 ml/gal or 0.4 to 1.3 ppm).

**CHRYSANTHEMUMS**

Sumagic Plant Growth Regulator applications provide growth control on pot Chrysanthemums as well as hardy (garden) Chrysanthemums.

**IMPORTANT:** Chrysanthemum cultivars vary widely in their response to Sumagic Plant Growth Regulator. Treat a small number of plants to confirm appropriate rates for local conditions and specific cultivars.

**FOLIAR SPRAY:** Apply Sumagic Plant Growth Regulator as a foliar spray when the length of the breaks is 1.5 to 2.0 inches (about 7 to 14 days after pinching). Make a uniform spray application at a volume of 2 qts per 100 sq ft of bench area (except in Florida on medium and tall cultivars use 3 qts per 100 sq ft). Make multiple applications as necessary. If escapes (random elongated stems) are a problem, use a lower rate and increase the volume of application from 2 qts/100 sq ft to 3 to 4 qts/100 sq ft.

**SPRAY CONCENTRATION RATE**

<table>
<thead>
<tr>
<th>GROWING REGION</th>
<th>FL OZ/GAL</th>
<th>ML/GAL</th>
<th>PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>All states, except Florida</td>
<td>0.8* to 2.6</td>
<td>19 to 76</td>
<td>2.5 to 10</td>
</tr>
<tr>
<td>Florida</td>
<td>1.3 to 2.6</td>
<td>38 to 76</td>
<td>5 to 10</td>
</tr>
</tbody>
</table>

* *Cooler growing climates should utilize the lower rate and make a second application if necessary.*

**TALLER CULTIVATING GROWERS (PRICE):** Use Sumagic Plant Growth Regulator as a foliar spray at 2.6 to 3.8 fl oz/gal (equal to 76 to 114 ml/gal or 10 to 15 ppm). If a second application is necessary, apply 2.6 fl oz/gal (equal to 76 ml/gal or 10 ppm) approximately 2 to 3 weeks after the initial application.

**SPRAY CONCENTRATION RATE**

<table>
<thead>
<tr>
<th>FL OZ/GAL</th>
<th>ML/GAL</th>
<th>PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>76 to 100</td>
<td>114</td>
<td>15</td>
</tr>
<tr>
<td>76 to 114</td>
<td>154</td>
<td>11</td>
</tr>
</tbody>
</table>

**NOTE:** Treatment under cool temperatures may reduce activity.
**HIBISCUS**

For use in Florida only (Refer to WOODY LANDSCAPE PLANTS section for other states).

**FOLIAR SPRAY:** Use from 1.3 to 2.6 fl oz/gal (38 to 76 ml/gal, 5 to 10 ppm) and apply as a uniform spray at a volume of 3 qts per 100 sq ft of bench area. Make multiple applications as necessary.

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**IXORA**

**IMPORTANT:** Timing of applications will depend on cultivar, time of year, and growing conditions. Treat a small number of plants to confirm appropriate rates for local conditions and cultivars.

For use in Florida only (Refer to WOODY LANDSCAPE PLANTS section for other states).

**FOLIAR SPRAY:** Apply *Sumagic* Plant Growth Regulator as a foliar spray at 5.1 fl oz/gal (151 ml/gal, 20 ppm) 4 to 8 weeks after the final pinch as a uniform spray at a volume of 1.5 qts per 100 sq ft of bench area. If a second application is necessary, apply 2.6 to 3.8 fl oz/gal (76 to 114 ml/gal, 10 to 15 ppm) approximately 3 to 4 weeks after the initial application.

---

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:**

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Protect from temperatures below 32°F. This product may freeze. If freezing should occur, thaw and shake gently to unify the product. Do not store diluted spray. For help with any spill, leak, fire or exposure involving this material, call day or night 800-892-0099.

**PESTICIDE DISPOSAL:**

Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

**CONTAINER HANDLING**

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. 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, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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Manufactured for

**Valent U.S.A. LLC**
P.O. Box 8025
Walnut Creek CA 94596-8025
Form 1300-J
Made in U.S.A.
059639-00037.20100806.SUM.AMEND
EPA Reg. No. 59639-37
EPA Est. 33762-IA-1
Sumagic®
PLANT GROWTH REGULATOR
For Commercial Greenhouse Use Only
Active Ingredient: By Wt
* Uniconazole-P........................................ 0.055%
Other Ingredients........................................ 99.945%
Total.................................................... 100.000%
*(E)-(S)-1-(4-chlorophenyl)-4,4-dimethyl-2-
(1H-1,2,4-triazol-1-yl)pent-1-en-3-ol
Contains 0.064 fl oz active ingredient per gallon (0.5 g/litre).

NET CONTENTS 1 GALLON (3.785 Litres)
KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION
Causes eye irritation. Avoid contact with eyes, skin and clothing.

FIRST AID
If in eyes: 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: 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.
If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE):
Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, and shoes plus socks.
Follow 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.

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

ENVIRONMENTAL HAZARDS: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
READ ENTIRE LABEL AND BOOKLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.
Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

See Booklet for Additional Precautionary Statements.
Sumagic is a registered trademark of Sumitomo Chemical Co., Ltd.
Manufactured for Valent U.S.A. LLC
P.O. Box 8025 Walnut Creek CA 94596-8025
Form 1300-J Made in U.S.A.
059639-00037.20100806.SUM.AMEND
EPA Reg. No. 59639-37 EPA Est. 33762-IA-1
Active Ingredient By Wt
*Uniconazole-P ............... 0.055%
Other Ingredients ........ ....... 99.945%
Total ................................ 100.000%

*(E)-(S)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1H,1,2,4-triazol-1-yl)pent-1-en-3-ol

Contains 0.064 fl oz active ingredient per gallon (0.5g/litre).

EPA Reg. No. 59639-37
EPA Est. 33762-IA-1

NET CONTENTS 15 GALLONS (57 Litres)
DISCLAIMER. RISKS OF USING THIS PRODUCT, AND LIMITATION OF LIABILITY:

IMPORTANT: Read the entire Label including this Disclaimer. Risks of using this Product, Limited Warranty, and Limitation of Liability apply only if using this product. If the terms are not acceptable THEN DO NOT USE THIS PRODUCT; rather, return the unequipped product within 15 days for a refund of the purchase price.

RISKS OF USING THIS PRODUCT:
The Buyer and User (herein to collectively herein as “Buyer”) of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and are referred to in the Label. By use of this product, the Buyer assumes responsibility for his/her actions and agrees to use the product in accordance with the instructions on the label.

Limitations of Liability:

To the extent consistent with applicable law allowing such requirements, Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield on all or any portion of the treated acreage, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from the use of this Product or, at the election of Valent or Seller, the REPLACEMENT OF THE PRODUCT.

Prompt Notice of Claim:

To the extent consistent with applicable law allowing such requirements Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is later, so that an immediate inspection of the affected property and growing conditions can be made.

To the extent consistent with applicable law allowing such requirements, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

Non-waiver:

Neither Valent nor Seller shall be deemed to have waived any rights, or to be in any manner precluded from asserting such rights, or waiving any of its rights, by the Buyer’s acceptance of a product, on any occasion or at any time. Neither Valent nor Seller shall be deemed to have consented to any modification or waiver of these Terms and Conditions.

Valent and Seller offer this product, and Buyer accepts it, subject to the terms and conditions of this entire Label and label. The sole remedy to the Buyer in the event of a breach of any condition in this Label shall be the return of the purchase price, and the Exclusive maximum liability of Valent or Seller for all damages, whether direct, indirect, special, incidental, or consequential and whether arising under any theory of liability, whether in contract, warranty, under any theory of negligence, in tort, or otherwise, is limited to the purchase price of the Product.

Validation of Federal law to use this product in a manner consistent with its labeling.

Read ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND LIMITATION OF LIABILITY. TO USE WITH APPROPRIATE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, contact the agency responsible for pesticide regulation.

FEDERAL REGULATIONS.

Do not apply this product to any crop or in a manner that will result in the drift or对其 direct contact with any protected handlers. Do not contaminate water when disposing of equipment washwaters. Do not enter drift areas until drift has dispersed. Do not contaminate water when disposing of equipment washwaters. Do not contaminate water when disposing of equipment washwaters.

Do not apply this product on or in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, contact the agency responsible for pesticide regulation.

Do not apply this product to any crop or in a manner that will result in the drift or对其 direct contact with any protected handlers. Do not contaminate water when disposing of equipment washwaters. Do not enter drift areas until drift has dispersed. Do not contaminate water when disposing of equipment washwaters. Do not contaminate water when disposing of equipment washwaters.
Applying foliar applications of Sumagic Plant Growth Regulator to plants on water collectors or on sub-irrigation benches may lead to more growth reduction than desired due to Sumagic Plant Growth Regulator being taken up through the soil with the irrigation water. When making applications under these conditions, the rate of application may need to be adjusted.

**PRE-PLANT APPLICATION TO SOIL SURFACE**
Sumagic Plant Growth Regulator may be applied to the soil surface just prior to planting plugs. A pre-plant soil surface spray often results in more uniform plant height. Sumagic Plant Growth Regulator is readily absorbed by roots and translocated in xylem tissue to the plant terminals. In general, only one half or less of the typical foliar spray rate will be required when spraying Sumagic Plant Growth Regulator on the soil surface prior to transplanting plugs. The required rate will vary across plant species, and the grower should conduct trials on a small number of plants under actual use conditions to determine the optimum rate. Soil media can strongly influence response to Sumagic Plant Growth Regulator. Soil media high in organic matter may require higher rates. Research conducted to support this application technique was conducted under normal surface irrigation, not sub-irrigation.

**DRENCH APPLICATIONS**
Drench application allows a more uniform application of Sumagic Plant Growth Regulator resulting in more uniform height control. Sumagic Plant Growth Regulator is readily absorbed by the roots and translocated in xylem tissue to growing tips. Growing media should be moist but not wet at time of drench application. This may be achieved by watering the day before applica- tion. Response may vary if the media is too dry to allow for even distribu- tion of application.

Generally, 4 oz of drench solution is required for a 6 inch pot. For larger or smaller pots, adjust volume up or down, depending on pot size. A suitable drench volume is application of enough solution to achieve total run through of no more than 10%, assuming that soil media is properly moist prior to appli- cation (example: 4.0 fl oz of drench solution is applied, no more than 0.4 fl oz should run through the bottom of pot). Growers should determine proper volume per pot or square inch of pot by conducting small trials on a few plants with water.

**PRE-PLANT BULB SOAKS**
Soak bulbs 1 to 3 hours in an effective and economical method of reducing height of bulb crops. This method allows for an uniform application of Sumagic Plant Growth Regulator concentrations in general. In general, bulbs are soaked in a solution of Sumagic Plant Growth Regulator for 1 to 5 minutes and then planted. Please see section titled “Bulb Crops” for further information.

**DETERMINING OPTIMUM RATES OF APPLICATION**

<table>
<thead>
<tr>
<th>PLANT TYPE</th>
<th>SPRAY CONCENTRATION (PPM)</th>
<th>DRENCH</th>
<th>BULB SOAK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bedding Plants</td>
<td>1 to 20</td>
<td>1 to 2</td>
<td>n/a</td>
</tr>
<tr>
<td>Bedding Plants*</td>
<td>0.5 to 10</td>
<td>0.5 to 10</td>
<td>0.5 to 10</td>
</tr>
<tr>
<td>Flowering/Soil Treated**</td>
<td>40 to 150</td>
<td>40 to 150</td>
<td>40 to 150</td>
</tr>
<tr>
<td>Woody Species</td>
<td>20 to 50</td>
<td>15 to 20</td>
<td>10 to 20</td>
</tr>
<tr>
<td>Woody Landscape</td>
<td>10 to 50</td>
<td>5 to 10</td>
<td>5 to 10</td>
</tr>
<tr>
<td>Bulb Crops**</td>
<td>2.5 to 10</td>
<td>2 to 10</td>
<td>1 to 3</td>
</tr>
</tbody>
</table>

**BULB SOAKS**
Bulb soaking can be especially sensitive to Sumagic Plant Growth Regulator activities. **Annual or Perennial**

- For pre-plant bulb soaks, it may be necessary to adjust both rates and soak time in order to achieve the desired effect.

**PRECAUTIONS**
- Do not exceed maximum application rate for any use.
- Do not apply Sumagic Plant Growth Regulator under conditions that can cause drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, for use or consumption.
- Avoid spray drift onto non-target species.
- Do not apply directly to soil or to plant foliage in direct contact with soil in greenhouses with soil flooring of high porosity and low organic content. This product has a potential to leach into groundwater or to run off into surface water.
- Apply Sumagic Plant Growth Regulator to well watered vigorously growing plants. Application to media containing pine bark will reduce Sumagic Plant Growth Regulator activity.
- Do not mix Sumagic Plant Growth Regulator with pesticides, fertilizers, wetting agents, spreader stickers or other adjuvants.
- Do not apply Sumagic Plant Growth Regulator to any food crops, except for those authorized crops: eggplant, groundcherry, pepino, pepper, tomati- lo and tomato.
- Do not reuse soil from plants treated with Sumagic Plant Growth Regulator.

**MIXING INSTRUCTIONS AND RATE CONVERSION TABLE**
Sumagic Plant Growth Regulator mixes readily with water.

**FOLIAR AND SOIL SURFACE APPLICATIONS** Always make sure application equipment is thoroughly cleaned before mixing. When preparing Sumagic Plant Growth Regulator for use as a spray, fill tank to one half full. Shake Sumagic Plant Growth Regulator container well before using. Add the needed amount of Sumagic Plant Growth Regulator according to the Rate Conversion Table below. Complete filling the tank.

**DRENCH AND BULB DIP APPLICATIONS** Add the needed amount of Sumagic Plant Growth Regulator to the appropriate volume of water for use as a drench or dip solution.

**RATE CONVERSION TABLE**

<table>
<thead>
<tr>
<th>PLANT TYPE</th>
<th>M/L</th>
<th>ML/GAL</th>
<th>FL OZ/GAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spray Concentration</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>19</td>
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<td>13.9</td>
</tr>
<tr>
<td>60</td>
<td>60</td>
<td>456</td>
<td>15.2</td>
</tr>
</tbody>
</table>

**Marginal rates are as active ingredient.**

**FRUITING VEGETABLES**
Fruiting vegetable transplants are typically grown at high densities, which limit penetration of light into the canopy. Therefore, transplants often have elongat- ed, weak stems that are easily damaged. This can result in significant damage to transplants during shipment and decrease their marketability. Application of Sumagic Plant Growth Regulator results in compact transplants with thick- er stems that are less likely to be damaged during shipment and are much more appealing to consumers.

**DETERMINING OPTIMUM RATES**
- Optimum Sumagic Plant Growth Regulator rates depend on the desired fru- it size and many physical and environmental factors. Specific growing practic- es such as watering, potting media, fertilization, temperature and light condi- tions will also affect the growth response to a given rate.
- When using Sumagic Plant Growth Regulator on plants not specifically list- ed on the label as trials as a guideline to determine a starting point. To determine optimum use rates, conduct trials on a small number of plants under actual use conditions using the lowest rates.

**BULB CROPS**
Bulb soaks are an effective and economical method of reducing height of bulb crops. This method allows for an uniform application of Sumagic Plant Growth Regulator concentrations in general. In general, bulbs are soaked in a solution of Sumagic Plant Growth Regulator for 1 to 5 minutes and then planted. Please see section titled “Bulb Crops” for further information.

**NOTE:** Some of the data for perennial bedding plants was generated in southern climates where more Sumagic Plant Growth Regulator is required for growth control. In more northern climates, application rates of 5 to 10 ppm fall within multiple applications as needed are commonly used to achieve desired results on many types of annual and perennial plants. First time users of Sumagic Plant Growth Regulator should make single or sequential applica- tions at the lowest labeled rate to determine optimum dose for specific culti- vars under local conditions. Do not use on Begonias as they are exceptionally sensitive to Plant Growth Regulator activity. Extreme care should be exercised to avoid spray drift onto neighboring crops.

**FOLIAR SPRAY**
Foliar applications of Sumagic Plant Growth Regulator will provide growth reduction in most commonly grown bedding plants when applied at 1 to 5 ppm. Rates of up to 20 ppm may be used for control of perennial weeds or pests, but not for control of annual weeds or pests.

**POINSETTIA TREES**
For use in Florida only:
- **DRENNING:** Apply Sumagic Plant Growth Regulator at a solution concentration of 0.5 to 8.0 8 fl oz (15 to 23 mlg, 2 to 3 ppm) when breaks are 1.5 to 2.0 inches (about 10 to 14 days after the second application). Apply 8 fl oz of diluted solution to each pot.

**NOTE:** Do not apply Sumagic Plant Growth Regulator to Poinsiettias after October 25.

**BEDDING PLANTS (ANNUAL AND PERENNIAL)**

**IMPORTAN** Important: Some of the data for perennial bedding plants was generated in southern climates where more Sumagic Plant Growth Regulator is required for growth control. In more northern climates, application rates of 5 to 10 ppm fall within multiple applications as needed are commonly used to achieve desired results on many types of annual and perennial plants. First time users of Sumagic Plant Growth Regulator should make single or sequential applica- tions at the lowest labeled rate to determine optimum dose for specific culti- vars under local conditions. Do not use on Begonias as they are exceptionally sensitive to Plant Growth Regulator activity. Extreme care should be exercised to avoid spray drift onto neighboring crops.

**FOLIAR SPRAY** Foliar applications of Sumagic Plant Growth Regulator will provide growth reduction in most commonly grown bedding plants when applied at 1 to 5 ppm. Rates of up to 20 ppm may be used for control of perennial weeds or pests, but not for control of annual weeds or pests.
the appropriate growth stage for specific cultivars and environmental condi-
tions. When applying to plants at the shortest growth stage (2 inches), use the lowest rate. Use rates listed below and apply uniformly at a spray volume of 2 to 10 g/L per 100 sq ft of bench area. Multiple applications of lower rate may be applied as necessary.

**RATE TABLE**

<table>
<thead>
<tr>
<th>BEDDING PLANTS</th>
<th>FL OZ/GAL</th>
<th>mL/LSQ</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ageratum</td>
<td>0.25-1.0</td>
<td>0.8-3.2</td>
<td>10-32</td>
</tr>
<tr>
<td>Celosia</td>
<td>0.5-1.0</td>
<td>1.5-3.0</td>
<td>10-32</td>
</tr>
<tr>
<td>Impatiens</td>
<td>0.25-1.0</td>
<td>0.8-3.2</td>
<td>10-32</td>
</tr>
<tr>
<td>Lobelia</td>
<td>0.5-1.0</td>
<td>1.5-3.0</td>
<td>10-20</td>
</tr>
<tr>
<td>Marigold</td>
<td>0.25-1.0</td>
<td>0.8-3.2</td>
<td>10-32</td>
</tr>
<tr>
<td>Petunia</td>
<td>0.5-1.0</td>
<td>1.5-3.0</td>
<td>10-32</td>
</tr>
<tr>
<td>Verbena</td>
<td>0.25-1.0</td>
<td>0.8-3.2</td>
<td>10-32</td>
</tr>
</tbody>
</table>

**DRENCH APPLICATION:** Optimum rates for drench applications to bedding plants have not been determined. Users can conduct trials based on rates in the section titled ‘Determining Optimum Rates.’

**NOTES:**
- Some bedding plants are extremely sensitive to Sumagic Plant Growth Regulator. When using for the first time on a particular bedding plant, treat only a small number of plants and observe for activity.
- For use on bedding plants not specifically listed, determine optimum drench rate by treating a small number of plants with 1 to 50 ppm as a foliar spray. Try low rates first. Rates may then be increased or decreased to achieve the desired effect. Timing of the first application should begin when new growth reaches 2 to 4 inches in height with most species.
- Cultivars within the same species may respond differently to a given rate of Sumagic Plant Growth Regulator. Cultivar grows generally require lower rates than tall cultivars (e.g., Marigolds).
- Plants that are more sensitive to a given rate of Sumagic Plant Growth Regulator, multiple applications of lower rates often gives more satisfactory results than a single application of a higher rate. For example, make two applications of 5 ppm instead of one application of 10 ppm.
- Some bedding plants have shown improved color and overall appearance following use of Sumagic Plant Growth Regulator. Even when growth retardation was not evident.
- For optimum results in Petunia and Verbena, do not apply Sumagic Plant Growth Regulator until plants reach a height of 4 inches.

**BULB CROPS**

**IMPORTANT:** Test on a small number of all new cultivars before widespread DRENCH APPLICATION. Use to determine appropriate rates on timing under your growing conditions. Repeat applications of lower rates may be necessary and may sometimes yield superior results to a single application of a higher rate. Cooler growing climates should utilize the lower rate, and if necessary a second application may be made.

**GRAPHICAL TRACKING:** Decisions regarding application of Sumagic Plant Growth Regulator to bulb crops may be made using the Graphical Tracking technique. Graphical Tracking is a grower management tool where over time actual plant height or development is compared with desired plant height or development. The technique involves plotting plant height onto a graph once or twice a week and making height control decisions after comparing actual and target heights.

**FOLIAR SPRAY:** Treat bulb type crops with Sumagic Plant Growth Regulator when shoots average 3 inches tall. Use a uniform spray volume of 2 qts per 100 sq ft of bench area. If a second application is made, it should be applied when shoots average 6 inches tall. Applications made after visible bud may adversely affect flowering.

**Note:** Usually, two applications of a foliar spray at lower rates are more effective than applications of a single high rate. A single application at a higher rate may cause a greater growth response than do later applications.

**SOIL DRENCH:** All states except Florida: Apply Sumagic Plant Growth Regulator as a foliar spray when shoots average 3 inches tall. Use a uniform spray volume of 2 qts per 100 sq ft of bench area. Make only one foliar application of Sumagic Plant Growth Regulator per crop.

**SOL DRENCH:** All states except Florida: Apply Sumagic Plant Growth Regulator as a foliar spray when shoots average 3 inches tall. Use a uniform spray volume of 2 qts per 100 sq ft of bench area. Make only one foliar application of Sumagic Plant Growth Regulator per crop.

**EASTER LILIES**

**IMPORTANT:** The use rates for Sumagic Plant Growth Regulator on Easter Lilies were developed with plants grown under positive DIF temperature conditions (higher day temperature than night temperature). Easter Lilies grown under negative DIF temperature conditions may require lower rates and fewer applications of Sumagic Plant Growth Regulator. Application of Sumagic Plant Growth Regulator may reduce the water requirement for Easter Lilies.

**GRAPHICAL TRACKING:** Decisions regarding application of Sumagic Plant Growth Regulator to Easter Lilies may be made using the Graphical Tracking technique. Graphical Tracking is a grower management tool where over time actual plant height or development is compared with desired plant height or development. The technique involves plotting plant height onto a graph once or twice a week and making height control decisions after comparing actual and target heights.

**SOIL DRENCH:** All states except Florida: Apply Sumagic Plant Growth Regulator as a foliar spray when shoots average 3 inches tall. Use a uniform spray volume of 2 qts per 100 sq ft of bench area. Make only one foliar application of Sumagic Plant Growth Regulator per crop.

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**AZALEAS (FLORIST)**

**IMPORTANT:** Azalea cultivars may vary in their response to Sumagic Plant Growth Regulator. Treat a small number of plants to confirm appropriate rates for local conditions and specific cultivars.

Use of Sumagic Plant Growth Regulator on Azaleas can result in increased number of flowers and improved appearance on some cultivars. Rates at the upper end of the labeled range should be used for late season applications.

**FOLIAR SPRAY:** Apply as a uniform spray at a volume of 1.5 qts per 100 sq ft of bench area at approximately 4 to 6 weeks after final pinch.

**SHORTER GROWING CULTIVARS (GLORIA, SOLITAIRE):** Apply Sumagic Plant Growth Regulator as a foliar spray at 2.6 fl oz/gal (equal to 76 ml/gal or 10 ppm). If a second application is necessary, apply 1.3 to 2.6 fl oz/gal (equal to 38 to 76 ml/gal or 5 to 10 ppm) approximately 2 to 3 weeks after the initial application.

**TALLER GROWING CULTIVARS (PRIZE):** Apply Sumagic Plant Growth Regulator as a foliar spray at 2.6 to 3.8 fl oz/gal (equal to 76 to 114 ml/gal or 10 to 15 ppm). If a second application is necessary, apply 2.6 fl oz/gal (equal to 76 ml/gal or 10 ppm) approximately 2 to 3 weeks after the initial application.

**DRENCH APPLICATION:** Optimum rates for drench applications to Azaleas have not been determined. Users can conduct trials based on rates in the section titled ‘Determining Optimum Rates’.

**WOODY LANDSCAPE ORNAMENTALS**

**IMPORTANT:** First time users of Sumagic Plant Growth Regulator for a specific plant species should treat a limited number of plants and make rate adjustments according to the plant response desired. The rate range for some specific woody landscape ornamentals are listed below.

For landscape ornamental crops not listed, users should conduct trials on a small scale using rates in the ‘Determining Optimum Rates’ section.

**FOLIAR SPRAY:** Apply Sumagic Plant Growth Regulator as a foliar spray at a volume of 2 qts per 100 sq ft of treated area within 7 days following pruning.

Make additional applications as necessary to obtain desired results.

**RATE TABLE**

<table>
<thead>
<tr>
<th>PLANT</th>
<th>SPRAY CONCENTRATION RATE</th>
<th>FL OZ/GAL</th>
<th>ML/GAL</th>
<th>PPM</th>
</tr>
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<tbody>
<tr>
<td>Crape Myrtle</td>
<td>12.8</td>
<td>379</td>
<td>50</td>
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<tr>
<td>Hibiscus*</td>
<td>2.6</td>
<td>76</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Ixora*</td>
<td>3.8</td>
<td>114</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Photinia</td>
<td>6.4</td>
<td>189</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Pyracantha</td>
<td>6.4</td>
<td>189</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

*All states except Florida. (For Florida Use Directions, see HIBISCUS & IXORA sections.)

**DRENCH APPLICATION:** Optimum rates for drench applications to woody landscape ornamentals have not been determined. Users can conduct trials based on rates in the section titled ‘Determining Optimum Rates’.

**NOTE:**
- Treatment under cool temperatures may reduce activity.

**HIBISCUS**

For use in Florida only (Refer to WOODY LANDSCAPE PLANTS section for other states).

**FOLIAR SPRAY:** Use from 1.3 to 2.6 fl oz/gal (38 to 76 ml/gal, 5 to 10 ppm) and apply as a uniform spray at a volume of 3 qts per 100 sq ft of bench area. Make multiple applications as necessary.

**IXORA**

**IMPORTANT:** Timing of applications will depend on cultivar, time of year, and growing conditions. Treat a small number of plants to confirm appropriate rates for local conditions and cultivars.

For use in Florida only (Refer to WOODY LANDSCAPE PLANTS section for other states).

**FOLIAR SPRAY:** Apply Sumagic Plant Growth Regulator as a foliar spray at 5.1 fl oz/gal (151 ml/gal, 20 ppm) 4 to 8 weeks after the final pinch as a uniform spray at a volume of 1.5 qts per 100 sq ft of bench area. If a second application is necessary, apply 2.6 to 3.8 fl oz/gal (76 to 114 ml/gal, 10 to 15 ppm) approximately 3 to 4 weeks after the initial application.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Protect from temperatures below 32°F. This product may freeze. If freezing should occur, thaw and shake gently to unify the product. Do not store diluted spray. For help with any spill, leak, fire or exposure involving this material, call day or night 800-892-0099.

**PESTICIDE DISPOSAL**

Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

**CONTAINER HANDLING**

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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Sumagic is a registered trademark of Sumitomo Chemical Co., Ltd.

Manufactured for

Valent U.S.A. LLC
P.O. Box 8025
Walnut Creek CA 94596-8025
Made in U.S.A.
Form 1358-H
059639-00037.20100806.SUM.AMEND
EPA Reg. No. 59639-37
EPA Est. 33762-IA-1
Sumagic

PLANT GROWTH REGULATOR

For Commercial Greenhouse Use Only

Active Ingredient

*Uniconazole-P .............................................. 0.055%

Other Ingredients .......................................... 99.945%

Total .......................................................... 100.000%

*[(E)-(S)-1-(4-chlorophenyl)-4,4-dimethyl-2-
(1H-1,2,4-triazol-1-y)pent-1-en-3-ol

Contains 0.064 fl oz active ingredient per gallon (0.5g/litre).

NET CONTENTS 15 GALLONS (57 Litres)

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Causes eye irritation. Avoid contact with eyes, skin and clothing.

FIRST AID

If in eyes: 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: Rinse skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor for treatment advice.

If swallowed: Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to do so by a poison control center or doctor.

Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air.

If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

USER SAFETY RECOMMENDATIONS

Users should:

• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

• Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

See Booklet for Additional Precautionary Statements.

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Valent U.S.A. LLC

P.O. Box 8025 Walnut Creek CA 94596-8025

Made in U.S.A.

Form 1358-H

059639-00037.20100806.SUM.AMEND

EPA Reg. No. 59639-37 EPA Est. 33762-IA-1