Agricultural Use Requirements
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

For additional Precautionary Statements, First Aid, Storage and Disposal and other use information see inside this label.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-547
EPA Est. 11773-IA-001
99013841

Keep Out of Reach of Children

CAUTION

NET CONTENTS 1 PT

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Produced for Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268
Container Use Directions

1. Remove the measuring chamber cap and induction seal. Replace cap and securely tighten. Tip container until liquid fills measuring chamber.
2. Return container to level position. No adjustment is needed.
3. Remove measuring chamber cap and dispense into proper application equipment.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful If Inhaled

Avoid breathing spray mist.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Shoes plus socks

Remove and wash contaminated clothing before reuse. 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.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.
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.

First Aid
If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

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 washwater or rinsate.

Directions for Use
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Read all Directions for Use carefully before applying.
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
- Shoes plus socks

Non-Agricultural Use Requirements
The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Entry Restrictions for Non-WPS Uses: Keep unprotected persons out of treated areas until sprays have dried.
Storage and Disposal
Do not contaminate water, food or feed by storage and disposal.
**Pesticide Storage:** Store in cool dry place in original container.
**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Product Information
Sapphire® specialty herbicide provides postemergence control of annual and perennial broadleaf weeds in established turfgrass, such as residential lawns, golf courses, sports fields, sod farms and around commercial buildings and other commercial turfgrass areas. Susceptible weeds emerged at the time of application will be controlled. A spray volume of 20 gallons per acre (gpa) or more and uniform coverage are required for optimum performance. Sapphire is rainfast within one hour after application and has soil residual herbicidal activity dependent upon weed species, soil type, soil moisture (rainfall or irrigation after application) and the rate of application.

Product Use Restrictions
- Do not apply Sapphire to golf course putting greens.
- Do not allow tank mixes of Sapphire to sit overnight.
• Do not apply Sapphire directly to, or otherwise permit Sapphire to come into contact with, flowers, ornamental shrubs or trees, or other desirable broadleaf plants, as serious injury may occur. Do not permit spray mists containing Sapphire to drift onto desirable broadleaf plants.
• Do not collect grass clippings for use as mulch around plants.
• Do not apply more than 0.5 pint of Sapphire (0.02 lb ai penoxsulam) per acre per application to perennial ryegrass and tall fescue and only if some injury can be tolerated.
• Do not allow sprays of Sapphire to contact exposed suckers or exposed roots of shallow rooted trees and shrubs or injury may occur.
• Do not apply more than 2.3 pints of Sapphire (0.09 lb ai penoxsulam) per acre per annual growing season.
• **Chemigation:** Do not apply this product through any type of irrigation system.

**Product Use Precautions**
• To minimize the potential for grass injury, additional applications should not be made within four weeks of a previous application.
• Tank mix a quality nonionic surfactant with all applications of Sapphire.
• Use this product strictly in accordance with the drift and runoff precautions on this label in order to minimize off-site exposure.

**Treatment on Turfgrass Species Not Listed on the Label for Sapphire**
Users who wish to use Sapphire on turfgrass species not listed on this label may determine the suitability for use by treating a small area at a specified rate. Prior to treatment of larger areas, the treated area should be observed for any sign of herbicidal injury during 30 days of normal growing conditions to determine if the target turfgrass species is tolerant.

**Use Sapphire on the following established turfgrass species** (numbers in parentheses refer to footnotes below):

### Established Cool Season Turfgrass (1)

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>bentgrass</td>
<td><em>Agrostis</em> species</td>
</tr>
<tr>
<td>fescue, tall (2)</td>
<td><em>Festuca arundinaceae</em></td>
</tr>
<tr>
<td>ryegrass, perennial (2)</td>
<td><em>Lolium perenne</em></td>
</tr>
</tbody>
</table>
Established Warm Season Turfgrass (3)

Common Name  Scientific Name
bermudagrass (common or hybrid)  Cynodon dactylon
fescue, tall (growing in warm season areas) (2)  Festuca arundinacea
kikuyugrass  Pennisetum clandestinum

1. Use no more than 1 pint of Sapphire (0.04 lb ai penoxsulam) per acre per application.
2. Use Sapphire on these species at a maximum rate of 0.5 pint (0.02 lb ai penoxsulam) per acre per application and only if some injury can be tolerated. A yellowing of turfgrass may occur within two weeks of application. The discoloration is generally gone within four weeks of treatment under adequate growing conditions. Stress to the turfgrass such as heat and drought may increase the potential for turfgrass injury. Under these conditions, more injury may be possible to perennial ryegrass and tall fescue. Use of 0.25 pint (0.01 lb ai penoxsulam) per acre may reduce potential for turfgrass injury.
3. Use no more than 1.5 pints of Sapphire (0.06 lb ai penoxsulam) per acre per application.

Spray Drift Management

Avoiding spray drift is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. Low humidity and high temperatures increase the evaporation rate of spray droplets and, therefore, the likelihood of increased spray drift. Make applications only when there is little or no hazard from spray drift. The applicator, crop consultant, and grower are responsible for considering all of these factors when making the decision to apply this product.

Avoid all direct or indirect contact with non-target plants. Do not apply near desirable vegetation. Allow adequate distance between target area and desirable plants to minimize exposure.

Sensitive Areas: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., bodies of water, known habitat for threatened or endangered species, non-target plants) is minimal (e.g., when wind is blowing away from the sensitive areas).

Weeds Controlled or Suppressed

Generally, application rates at the lower end of the rate range will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species,
perennials, and under conditions where control is more difficult (plant stress conditions such as drought or extreme temperatures, dense weed stands and/or larger weeds), the higher rate within the rate range or repeat applications will be needed. Weeds growing in the absence of competition from other vegetation generally require higher rates or repeat applications to obtain satisfactory control or suppression.

<table>
<thead>
<tr>
<th>Weeds Controlled or Suppressed</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pt/acre</td>
</tr>
<tr>
<td>English lawn daisy¹</td>
<td>0.25 – 1.5</td>
</tr>
<tr>
<td>(4 – 24 fl oz/acre)</td>
<td></td>
</tr>
<tr>
<td>clover, white</td>
<td>0.5 – 1.5</td>
</tr>
<tr>
<td>(8 – 24 fl oz/acre)</td>
<td></td>
</tr>
</tbody>
</table>

¹Special use instructions for controlling English lawn daisy:
• Late summer/fall applications of Sapphire have shown to provide better control of English lawn daisy than spring applications.
• Irrigate the day before applications are planned to assure turfgrass and English lawn daisy are not stressed.
• Make two to three applications on a 28-day interval at 0.25 to 0.5 pints of product per acre. Use the higher rate when heavy English lawn daisy populations are observed.
• Tank mix a quality nonionic surfactant with all applications of Sapphire.
• Perennial ryegrass and tall fescue have demonstrated sensitivity to Sapphire. Where these varieties are dominant, multiple applications of 0.25 pint of Sapphire (0.01 lb ai penoxsulam) per acre provide control of English lawn daisy while minimizing turfgrass injury potential. If unsure of the varietal composition of the golf course or turfgrass area, initial testing with Sapphire on a small turfgrass area prior to treatment of large turfgrass areas may be warranted.

Mixing Instructions

Sapphire - Alone
Fill spray tank with water equal to 1/2 to 3/4 of the required spray volume. Start agitation. Add the required amount of Sapphire, then finish filling the tank. Continue agitation while filling spray tank to required volume and during application.
Sapphire - Tank Mix
Sapphire may be applied in tank mix combination with other herbicides labeled for use on turfgrass to control additional weeds. Tank mixing or using Sapphire with any other product not specifically and expressly authorized by the label shall be the exclusive risk of the user, applicator and/or application advisor. When tank mixing, follow label directions, including application rates, use precautions and limitations on each respective label. Continuous agitation is required for tank mixes.

Tank Mix Precautions:
• Do not exceed specified application rates. Do not tank mix with another pesticide product that contains the same active ingredient as this product unless the label of either tank mix partner specifies the maximum dosages that may be used.
• For other products packaged in water soluble packaging, do not tank mix with products containing boron or mix in equipment previously used to apply a product mixture containing boron unless the tank and spray equipment has been adequately cleaned.
• Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

Tank Mix Compatibility Testing: When tank mixing Sapphire with other materials, a compatibility test (jar test) using relative proportions of the tank mix ingredients should be conducted prior to mixing ingredients in the spray tank. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Mixing Order: Fill the tank with water to 1/4 to 1/3 of the required spray volume. Start the agitation. Different formulation types should be added in the following order: dry flowables (DF), wettable powders (WP), aqueous suspensions (AS), flowables (F), or liquids (L). Allow each product type to completely disperse before adding another. Continue agitation and fill tank to 3/4 full, add the correct quantity of Sapphire and mix thoroughly. Finally, add any solution (S) formulations, agitate and finish filling. Maintain agitation during filling and during application. If spraying and agitation must be stopped before the tank is empty, suspended materials may settle to the bottom. It is important to resuspend all of the settled material before continuing application. A sparger agitator is particularly useful for this purpose. Do not allow tank mixes to set overnight.
Application Directions

**Standard Volume Broadcast Application**
Apply in a spray volume of 20 gpa or more (0.5 gallons or more per 1000 sq ft). Use a higher application volume when complete and uniform application must be ensured, i.e., when Sapphire is tank mixed with foliar fertilizers. If required, spray volume up to 200 gpa may be used.

**Low Volume Application**
Apply in a spray volume of 5 to 20 gpa (0.08 to 0.5 gallons per 1000 sq ft). Use low pressure and application equipment capable of delivering a uniform spray droplet. To improve spray coverage, the addition of a nonionic surfactant at a rate of 1/4 to 1/2 pint per acre is suggested. Use the higher rate of surfactant for lower rates of Sapphire and lower spray volumes.

**Spot Treatments and/or Hand-Held Sprayers**
Spot treatments should be applied at rates equivalent to broadcast applications.

**Hand-Held Sprayers:** When treating a small area, apply Sapphire with a calibrated sprayer that assures accurate, uniform spray distribution. In general, Sapphire should be mixed thoroughly with clean water and applied at 20 to 40 psi in a minimum of 1 gallon of water per 1000 sq ft.

**Rates and Timing of Application**
Apply Sapphire to turfgrass at the rate of 0.25 to 1.5 pint per acre as a ground broadcast treatment or spot treatment. Calibrate application equipment prior to use according to manufacturer's directions. Avoid skips or overlaps as poor weed control or plant injury may occur.

**Broadcast Rates of Sapphire**

<table>
<thead>
<tr>
<th>Rate pint/acre</th>
<th>Amount (1000 sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>fl oz¹</td>
</tr>
<tr>
<td>1.5</td>
<td>0.55</td>
</tr>
<tr>
<td>1</td>
<td>0.37</td>
</tr>
<tr>
<td>0.5</td>
<td>0.18</td>
</tr>
<tr>
<td>0.25</td>
<td>0.09</td>
</tr>
</tbody>
</table>

¹1 fl oz = 29.6 (30) mL
Best weed control results are obtained when Sapphire is applied to small, actively
growing weeds. Extreme growing conditions such as drought or near freezing
temperatures prior to, at, or following time of application may reduce weed control.
Broadleaf weed species germinate at different times.

Apply Sapphire to newly seeded cool season turfgrass only after the third mowing or
after the turfgrass seedlings have tillered and developed an adequate secondary root
system. Reseeding is not recommended for at least four weeks after application.

This product may also be applied to newly established warm season turfgrass. Delay
treatments until two to four weeks after sodding, sprigging or plugging.

**Terms and Conditions of Use**

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation
of Remedies are not acceptable, return unopened package at once to the seller for
a full refund of purchase price paid. Otherwise, use by the buyer or any other user
constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use
and Limitation of Remedies.

**Warranty Disclaimer**

Dow AgroSciences warrants that this product conforms to the chemical description
on the label and is reasonably fit for the purposes stated on the label when used in
strict accordance with the directions, subject to the inherent risks set forth below. To
the extent permitted by law, Dow AgroSciences MAKES NO OTHER EXPRESS OR
IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

**Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Crop injury,
lack of performance, or other unintended consequences may result because of such
factors as use of the product contrary to label instructions (including conditions
noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal
conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of
other materials, the manner of application, or other factors, all of which are beyond
the control of Dow AgroSciences or the seller. To the extent permitted by law, all
such risks shall be assumed by buyer.
Limitation of Remedies

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent permitted by law, Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

To the extent permitted by law, the terms of the Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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