

241-398

1-15-2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

JAN 15 2009

Dr. Jeffrey H. Birk  
Regulatory Manager  
BASF  
26 Davis Drive  
Research Triangle Park, NC 27709-3528

Subject: Label Notification for Pesticide Registration Notice 2007-4

Dear Dr. Birk,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated July 31, 2008 for the product Stalker<sup>®</sup> herbicide (EPA Registration Number 241-398). The Registration Division (RD) has conducted its review of this request for its applicability under PRN 2007-4 and finds that the label changes requested fall within the scope of PRN 2007-4. The label submitted with the application has been stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please call me directly at 703-305-6249 or Steve Schaible of my staff at 703-308-9362.

Sincerely,

A handwritten signature, likely of Linda Arrington, consisting of a stylized cursive 'L' followed by a horizontal line.

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0080, Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 241-398	2. EPA Product Manager James Tompkins	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Stalker herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) BASF 26 Davis Drive Research Triangle Park, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar to <b>NOTIFICATION</b> in composition and labeling to: EPA Reg. No. <u>JAN 15 2009</u> Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification of container disposal label changes for Stalker herbicide (241-398) in compliance with PRN 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. This notification is not subject to a fee under PRIA. Contact Jeff Birk at 919-547-2622 (phone), 919-547-2850 (fax) or by Email at birkj@basf.com

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1.0, 2.5, 15 gallons		5. Location of Label Directions <input type="checkbox"/> on label accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Jeffrey H. Birk	Title Regulatory Manager	Telephone No. (Include Area Code) 919-547-2622
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Jeffrey H. Birk	5. Date July 31, 2008	

# Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	Date Submitted to EPA	Electronic file name
241-398	7-31-08	000241-00398.20080731.NVA 2008-04-138-0133

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

  
Signature

07/31/2008

Date

Jeffrey H. Birk

Name (typed)

Regulatory Manager

Title



The Chemical Company

4/16  
July 31, 2008

U.S. Environmental Protection Agency  
Office of Pesticide Programs (7505P)  
Document Processing Desk 7504P (NOTIF)  
Room S-4900  
One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202  
Attention: Mr. James Tompkins, (PM 25)

**NOTIFICATION**

JAN 15 2009

**RE: Notification complying with PRN 2007-4:  
Revised Stalker® herbicide container disposal language  
EPA Reg. No. 241-398**

Dear Mr. Tompkins:

BASF is hereby submitting a notification with revised labeling for Stalker herbicide (EPA Reg. No. 241-398) to comply with the container disposal changes required by PRN 2007-4. No other substantive changes have been made to the labeling.

Enclosed please find:

- Application form 8570-1
- CD containing electronic copy of the label
- Certification with Respect to Label Integrity
- Stalker herbicide label
- Approved Stalker herbicide label

No PRIA fee is required for this notification.

Thank you for your assistance with this matter. If you should have any questions, please feel free to call me at (919) 547-2622.

Regards,

Jeffrey H. Birk, Ph.D.  
Regulatory Manager  
Phone 919-547-2622  
Mobile : 919-225-9220  
Fax: 919-547-2850  
Email: [jeffrey.birk@basf.com](mailto:jeffrey.birk@basf.com)

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# STALKER<sup>®</sup>

herbicide

**Active Ingredient:\***

Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid) .....

27.6%

**Other Ingredients:** .....

72.4%

**Total:** .....

100.0%

\*Equivalent to 22.6% (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid) or 2 pounds acid per gallon.

EPA Reg. No. 241-398  
U.S. Patent No. 4,798,619

EPA Est. No.

**NOTIFICATION**

JAN 15 2009

**KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail.)

See inside for complete **First Aid, Precautionary Statements,  
Directions for Use and Conditions of Sale and Warranty.**

**In case of an emergency endangering life or property involving this product,  
call day or night 1-800-832-HELP (4357).**

**Shake well before using.**

**NOTIFICATION**

JAN 15 2009

**Net Contents:**

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

 **BASF**  
The Chemical Company

FIRST AID	
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
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 BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS CAUTION

Harmful if inhaled or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for **Category A** on an EPA chemical-resistance category selection chart.

#### Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- chemical-resistant gloves, such as barrier laminate, butyl rubber or polyethylene
- shoes plus socks

Follow manufacturer's instructions for cleaning and 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:

1. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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.

## PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Stalker® herbicide** should be mixed, stored, and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

**DO NOT** mix, store, or apply **Stalker** or spray solutions of **Stalker** in unlined steel (except stainless steel) containers or spray tanks.

## 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 or rinsate. This herbicide is phytotoxic at extremely low concentrations. Non-target plants may be adversely affected from drift.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**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, such as barrier laminate, butyl rubber or polyethylene
- shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are **NOT** within the scope of the Worker Protection Standard (WPS) 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.

Noncrop weed control is not within the scope of the Worker Protection Standard. See the **GENERAL INFORMATION** section of this label for a description of noncrop sites.

**DO NOT** enter treated areas without protective clothing until sprays have dried.

**Stalker® herbicide** should be used only in accordance with recommendations in this leaflet label. Keep containers closed to avoid spills and contamination.

### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE: DO NOT** store below 10° F.

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

### CONTAINER DISPOSAL

**Nonrefillable Container. DO NOT** reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for

recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### Triple rinse containers small enough to shake

**(capacity ≤ 5 gallons) 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.

#### Triple rinse containers too large to shake (capacity

**> 5 gallons) 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. Turn the container over onto its other 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.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or 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.

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**Triple rinse as follows:** To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. **DO NOT** reuse the container for any other purpose. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or

obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

#### In Case of Spill

In case of large-scale spillage regarding this product, call:  
 CHEMTREC 1-800-424-9300  
 BASF Corporation 1-800-832-HELP (4357)

### IMPORTANT

**DO NOT** use on food or feed crops. **DO NOT** apply to the inside of ditches used to transport irrigation water.

**DO NOT** apply where runoff water may flow onto agricultural land as injury to crops may result. Keep from contact with fertilizers, insecticides, fungicides, and seeds.

**DO NOT** drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.

Thoroughly clean application equipment after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

### GENERAL INFORMATION

**Stalker® herbicide** is an aqueous formulation that is readily mixable with water, diesel oil, or recommended seed oils and penetrating oils. For foliar applications, **Stalker** may be mixed with water as the spray carrier or an emulsion carrier may be prepared by mixing **Stalker** into water and then adding a suitable seed oil at 12 to 50%, by volume.

**Stalker** is to be mixed with water or a penetrating oil and applied as a spray to cut stumps and frilling cuts for the control of brush. **Stalker** should be mixed with a penetrating oil for application to the basal area of brush and trees. Adequate agitation should be maintained with all **Stalker** emulsion mixtures to prevent phase separation. Prior to actual tank mixing with other products, herbicides and carrier oils, compatibility testing in small containers is recommended!

**Stalker** is recommended for woody vegetation control and site preparation in forestry sites.

An application of **Stalker** is recommended for control of brush in grass pasture and rangeland and noncropland areas such as railroad, utility, highway, and pipeline rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, non-irrigation ditchbanks including grazed or hayed areas within these sites. **Stalker** is also recommended for use with asphalt and asphalt slurries to control weeds on road shoulders, under pavement, in roadside cracks and crevices, and to prevent weed encroachment on highways and paved surfaces.

**Stalker** is also recommended for control of undesirable vegetation along forest roads, non-irrigation ditchbanks,

and the establishment and maintenance of wildlife openings.

**Stalker** may be applied on forestry sites that contain areas of temporary surface water caused by the collection of water between planting beds, in equipment ruts, or in other depressions created by forest management activities, except in the states of California and New York. It is permissible to treat drainage ditches, intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites when no water is present, except in the states of California and New York. Only the edge of drainage ditches can be treated for drainage ditches that contain water. It is also permissible to treat marshes, swamps, and bogs after water has receded, as well as seasonally dry flood deltas, except in the states of California and New York. **DO NOT** make applications to natural or manmade bodies of water such as lakes, reservoirs, ponds, streams, rivers and canals.

#### SYMPTOMOLOGY:

**Stalker** is readily absorbed through foliage, bark and roots and is translocated rapidly throughout the plant, with accumulation in meristematic regions. Treated plants stop growing soon after herbicide application. Chlorosis first appears in the youngest leaf tissue. In perennials, the herbicide is translocated into the roots, thus preventing resprouting. Chlorosis and tissue necrosis may not be apparent in some species for several weeks after application. Woody plants, brush, and trees may not display the full extent of herbicide control until several months following application.

### PRECAUTIONS FOR AVOIDING INJURY TO NON-TARGET PLANTS

Untreated trees can occasionally be affected by root uptake of **Stalker** through movement into the top soil. Injury or loss of desirable trees or other plants may result if **Stalker** is applied on or near desirable trees or other plants, on areas where their roots extend, or in locations where the treated soil may be washed or moved into contact with their roots.

#### MANAGING OFF-TARGET MOVEMENT

The following information is provided as general guidance for managing off-target movement. Specific use recommendations for **Stalker** may differ depending on the application technique used and the vegetation management objective.

**Spray Drift:** Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas,



bodies of water, known habitat for threatened or endangered species, or nontarget crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **Wind, Temperature and Humidity** and **Temperature Inversions**).

#### **Controlling Droplet Size:**

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
  - Pressure - **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
  - Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage.
  - Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
  - Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using lowdrift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.
- DO NOT** use nozzles producing a mist droplet spray.

**Application Height:** Making applications at the lowest possible height (aircraft, ground driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

**Swath Adjustment:** When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

**Wind:** Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to

variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

**Temperature and Humidity:** When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**Temperature Inversions:** Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Wind Erosion:** Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

**Aerial Application Methods and Equipment:** Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Managing spray drift from aerial applications: Applicators must follow these requirements to avoid off-target drift movement: 1) boom length - the distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor, 2) nozzle orientation - nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees, and 3) application height without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants. Applicators must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

**Ground Application (Broadcast):** Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

## SITE PREPARATION TREATMENTS

**Stalker® herbicide** may be used to control labeled grasses, broadleaf weeds, vines and brambles, and woody brush and trees on forest sites in advance of regeneration for the following conifer crop species:

Crop Species	Rate (oz./Acre)
Loblolly Pine ( <i>Pinus taeda</i> )	48-80
Loblolly X Pitch Hybrid	48-80
Longleaf Pine ( <i>Pinus palustris</i> )	48-80
Shortleaf Pine ( <i>Pinus echinata</i> )	48-80
Virginia Pine ( <i>Pinus virginiana</i> )	48-80
Slash Pine ( <i>Pinus elliotii</i> )	40-64
Douglas-Fir ( <i>Pseudotsuga menziesii</i> )	24-48
Western Hemlock ( <i>Tsuga heterophylla</i> )	24-48
Costal Redwood ( <i>Sequoia sempervirens</i> )	24-48
California Red Fir ( <i>Abies magnifica</i> )	24-40
California White Fir ( <i>Abies concolor</i> )	24-40
Black Spruce ( <i>Pinus mariana</i> )	24-32
Jack Pine ( <i>Pinus banksiana</i> )	24-32
Pitch Pine ( <i>Pinus rigida</i> )	24-32
Red Spruce ( <i>Picea rubens</i> )	24-32
White Pine ( <i>Pinus strobus</i> )	24-32
White Spruce ( <i>Picea glauca</i> )	24-32
Lodgepole Pine ( <i>Pinus contorta</i> )	24-32
Ponderosa Pine ( <i>Pinus ponderosa</i> )	24-32

Use the recommended rate of **Stalker** per acre applied as a broadcast foliar spray for long-term control of labeled woody plants and residual control of herbaceous weeds. Within 4 to 6 weeks of treatment, grasses and other herbaceous weeds will be controlled and may provide fuel to facilitate a site preparation burn, if desired, to control conifers or other species tolerant to the herbicide.

## MIXING and APPLICATION INSTRUCTIONS for SITE PREPARATION

Apply the recommended rate of **Stalker** per acre (2.25 gallons will treat six acres at the 48 oz./A rate) in 5 to 20 gallons total spray carrier for helicopter applications or 5 to 40 gallons total spray carrier for mechanical or backpack ground spray applications. Enhanced brownout for burning and improved control of brush and grasses may be obtained by application of **Stalker** in 12 to 50% oil:water (volume:volume) emulsion carrier. Mix **Stalker** into the water portion of the carrier thoroughly, then add the oil and mix thoroughly again to obtain a uniform emulsion. Use the higher label rates of **Stalker** and higher spray volumes when controlling particularly dense or multi-layered canopies of hardwood stands, or difficult to control species. Make applications during the growing season; beginning in the spring after full leaf expansion of the target weed or brush has occurred and complete applications before leaf drop in the fall.

Tank mixes may be necessary for chemical control of conifers and other species tolerant to **Stalker** in certain cases. Observe all precautions and restrictions on the product labels. Always follow the most restrictive label. Combinations with other products labeled for forest site preparation may kill certain plants such as legumes and blackberry which are desirable for wildlife habitat.

**DO NOT** plant seedlings of northern or western conifer species, other than Douglas-fir, on sites that have been site prepared with a broadcast application of **Stalker** or into the treated zone of spot or banded site preparation applications for three months following treatment or injury may occur. Douglas-fir seedlings may be planted two months after site preparation treatment with **Stalker**.

## HELICOPTER SPRAY EQUIPMENT:

All precautions should be taken to minimize or eliminate spray drift. Applications should not be made under gusty conditions. The use of controlled droplet booms and nozzle configurations is recommended.

**IMPORTANT: DO NOT** make applications by fixed wing aircraft. Maintain adequate buffer zones. Thoroughly clean application and mixing equipment, including landing gear, immediately after use. Prolonged exposure of this product to uncoated steel (except stainless steel) surfaces may result in corrosion and failure of the exposed part.

## DIRECTED FOLIAR APPLICATIONS for CONIFER RELEASE

**Stalker** may be applied as a directed spray using water or oil emulsion carrier for control and suppression of labeled brush and weed species. Directed spray applications may be made using low carrier volumes (10 gallons total spray per acre or less) in conifer stands of all species and ages by targeting the unwanted vegetation and avoiding direct application to the conifer.

**Use directed foliar applications of Stalker for release of the following conifers from hardwood competition:**

Crop Species	Rate (fl. oz./Acre)
Loblolly Pine ( <i>Pinus taeda</i> )	24-40
Loblolly X Pitch Hybrid	24-40
Virginia Pine ( <i>Pinus virginiana</i> )	24-40
Longleaf Pine ( <i>Pinus palustris</i> )	24-32
Pitch Pine ( <i>Pinus rigida</i> )	24-32
Shortleaf Pine ( <i>Pinus echinata</i> )	24-32
Slash Pine ( <i>Pinus elliotii</i> )	24-32
White Pine ( <i>Pinus strobus</i> )	16-32
Lodgepole Pine ( <i>Pinus contorta</i> )	16-24
Douglas-Fir ( <i>Pseudotsuga menziesii</i> )	16-24
Jack Pine ( <i>Pinus banksiana</i> )	16-24
Black Spruce ( <i>Picea mariana</i> )	12-24
Red Spruce ( <i>Picea rubens</i> )	12-24
White Spruce ( <i>Picea glauca</i> )	12-24

For applications directed to the foliage of undesirable brush mix 2 to 10% **Stalker® herbicide** in water. For brush species with thick leaf cuticles or difficult to control species use oil emulsion carrier containing 12 to 50%, by volume, recommended oil diluent. Apply the spray solution or emulsion to at least two-thirds of each hardwood crown using backpack sprayers or hand held equipment.

**DO NOT** spray to the point of runoff and avoid spraying the conifers for best results. Big leaf maple requires a minimum of 5 % by volume, **Stalker** solution or emulsion for control.

Some minor conifer growth inhibition may be observed when release treatments are made during periods of active conifer growth. To minimize potential conifer height growth inhibition, release treatments may be made late in the growing season after formation of final conifer resting buds. To prevent possibility of conifer injury, **DO NOT** apply **Stalker** when conifers are under stress from drought, diseases, animal or winter injury, or other stresses reducing conifer vigor.

Injury may occur to non-target or desirable hardwoods if they extend from the same root system as treated stems, or their root systems are grafted to those of the treated tree, or if their roots extend into the soil near treated trees.

### UNDERSTORY BROADCAST APPLICATIONS for MID-ROTATION RELEASE

**Stalker** may be applied as a broadcast application below the pine canopy in southern pines to control understory brush and suppress trees for labeled species. Ground spray machinery or hand held equipment may be used to broadcast **Stalker** in water or oil emulsion carrier below the crop tree canopy in a manner as to minimize spray contact by the live crown of crop trees.

**Ensure that maximum labeled rates per acre listed for crop species below are not exceeded.**

Crop Species	Rate (fl. oz./Acre)
Loblolly Pine ( <i>Pinus taeda</i> )	64
Loblolly X Pitch Hybrid	64
Virginia Pine ( <i>Pinus virginiana</i> )	64
Longleaf Pine ( <i>Pinus palustris</i> )	32
Pitch Pine ( <i>Pinus rigida</i> )	32
Shortleaf Pine ( <i>Pinus echinata</i> )	32
Slash Pine ( <i>Pinus elliotii</i> )	32

### CUT STUMP TREATMENTS

Mix 8.0-16.0 fluid ounces of **Stalker** in one gallon of water\*, diesel oil, or a penetrating oil. **Stalker** may be tank-mixed with **Garlon® 3A**, **Garlon® 4**, **Tordon® K**, **Brush Killer® 800**, **Escort®** or **Roundup®** to control labeled species. Spray or brush the **Stalker** solution onto the cambium area of the freshly cut stump surface. Insure

that the **Stalker** solution thoroughly wets the cambium area (the wood next to the bark) of the stump.

The use of a surfactant or penetrating agent may improve uptake through partially callused cambiums. Applications can be made anytime during the year except during periods of heavy sap flow in the spring. **DO NOT** over apply causing puddling.

### TREE INJECTION TREATMENTS

No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is directly injected into agricultural plants.

Mix 8.0-12.0 fluid ounces of **Stalker** in one gallon of water\*. Using standard injection equipment, apply 1 ml. of **Stalker** solution at each injection site around the tree with no more than 1 inch intervals between cut edges. Insure that the injector completely penetrates the bark at each site.

### FRILL OR GIRDLE TREATMENTS

Mix 8.0-12.0 fluid ounces of **Stalker** in one gallon of water\*, diesel oil, or a penetrating oil.

Using a hatchet, machete, or similar tool, make cuts through the bark and completely around the tree with no more than 2 inch intervals between cut edges. Spray or brush the **Stalker** solution into each cut until thoroughly wet.

\*Note: Use water as a diluent only when temperatures are sufficient to prevent freezing or add antifreeze (ethylene glycol) according to label directions to prevent freezing.

### CUT STUBBLE

**Stalker** can be applied within 2 weeks following mechanical mowing or cutting of brush. Best results are obtained when some regrowth of brush has occurred. To suppress or control resprouting, uniformly apply a spray solution of 1 to 2 pints **Stalker** plus 2.5 gallons (5% v/v) basal oil, or similar penetrating agent plus enough water to make 50 gallons of spray solution to treat one acre. **Stalker** may be tankmixed with 1 to 2 quarts of **Garlon® 4** or **Tordon® K** and other labeled products to aid in control or suppression of brush. When tank-mixing, follow all precautions on the tank-mix product label and always follow the most restrictive label. Tank-mixes should include at least 5% (v/v) penetrating agent. The addition of at least 5% (v/v) penetrating agent can aid in uptake through the bark or exposed roots. Cut stubble applications are made to the soil and cut brush stumps. This type of application may increase ground cover injury. However, vegetation will recover. Making applications of **Stalker** directly to the soil can increase potential root uptake causing injury or death of desirable trees.

### USE WITH ASPHALT AND PAVED SURFACES

**Stalker** may be applied at 3 quarts per acre in combination with MC 30, MC 70, RC 70, and SC 70 asphalts to

control weeds which encroach on road shoulders under guardrails, or in cracks and crevices of paved surfaces. The addition of an emulsifier may be needed to allow proper mixing of **Stalker® herbicide** with other asphalts. Add **Stalker** to the distribution tank just before application, allowing sufficient time for it to mix uniformly with the asphalt. Mixtures should not be heated above 150° F. **DO NOT** allow mixture to stand; apply as soon as thoroughly mixed.

### THINLINE BASAL AND STEM APPLICATIONS

**Stalker** may be applied as a thinline application to susceptible species such as big leaf maple (*Acer macrophyllum*), willow (*Salix* spp.) and Eucalyptus (*Eucalyptus* spp.) with a stem ground line diameter of 3 inches or less. Mix 24 to 48 ounces of **Stalker** in one gallon of diesel oil or penetrating oil. Maintain uniform mixtures with frequent agitation. Direct a thin line of the spray solution to the stems beginning a few feet from the ground and descending toward the base of the tree making a zig-zag motion. **DO NOT** over apply causing puddling.

### LOW VOLUME BASAL BARK TREATMENTS

Mix 8.0-12.0 fluid ounces of **Stalker** in one gallon of diesel oil or a penetrating oil. To control mixed brush species with up to 4 inch stem diameter at breast height, spray to wet the lower 12-18 inches of the stem with the **Stalker** oil mixture (include the root collar area). **DO NOT** over apply causing dripping or puddling. Maintain uniform mixtures with frequent agitation. Avoid application on sites that have been mowed prior to application resulting in a high density of stump resprouts containing multiple, small (1/2 inch diameter or less) stems. Application sites containing high stem densities and multiple, small (1/2 inch diameter or less) stems should be foliar treated with low volume backpack or fixed boom applications. See **BRUSH CONTROL/GROUND APPLICATIONS/Low Volume** Section of **Arsenal® herbicide** label (EPA Reg. No. 241-346).

**Stalker** may be tank-mixed with **Garlon® 4**, **Brush Killer® 800** and other basal products to broaden the spectrum of control. Consult the herbicide labels for rates and susceptible brush species. When tank-mixing, follow all precautions on the tank-mix product label and always follow the most restrictive label. Use a tank mix of 3 to 5% **Stalker** plus 15 to 20% **Garlon 4** in basal oil to control black locust, honey locust, hackberry, elms and other species listed on manufacturer's labels. Use the higher rate of **Stalker** (5%) in areas containing sassafras, oak, hickory, cherry, and maples or in the southern 2/3's of the U.S. A tank-mix of 3% **Stalker** + **Garlon 4** is effective in the Northeastern U.S.

### LOW VOLUME FOLIAR APPLICATIONS

**Stalker** may be applied as a low volume foliar application. Mix 3-5% **Stalker** in water and adjuvant or in a penetrating oil. For small brush spray down on the crown to cover approximately 70% of the plant foliage. For larger brush insure coverage on as much of the crown as possible and spray at least two sides of the plant. **Stalker** may be tank-

mixed with other labeled herbicides. Use a tank mix of 3 to 5% **Stalker** plus 15 to 20% **Garlon 4** in basal oil to control black locust, honey locust, hackberry, elms and other species listed on manufacturer's labels. Use the higher rate of **Stalker** (5%) in areas containing sassafras, oak, hickory, cherry, and maples or in the southern 2/3's of the U.S. A tank-mix of 3% **Stalker** + **Garlon 4** is effective in the Northeastern U.S.

SPRAY SOLUTION MIXING GUIDE FOR LOW VOLUME FOLIAR APPLICATIONS				
AMOUNT OF SPRAY SOLUTION BEING PREPARED	DESIRED CONCENTRATION (FLUID VOLUME)			
	Stalker		Garlon 4	
	3%	5%	15%	20%
1 gallon	3.8 oz.	6.4 oz.	19.2 oz.	25.6 oz.
3 gallons	11.5 oz.	19.2 oz.	57.6 oz.	76.8 oz.
4 gallons	15.4 oz.	25.6 oz.	76.8 oz.	102.4 oz.
5 gallons	19.2 oz.	32.0 oz.	96.0 oz.	1.0 gallon
50 gallons	1.5 gallons	2.5 gallons	7.5 gallons	10.0 gallons
100 gallons	3.0 gallons	5.0 gallons	15.0 gallons	20.0 gallons

### INVERT EMULSIONS

**Stalker** can be applied as an invert emulsion carrier. The carrier is a thick invert water-in-oil spray emulsion designed to minimize spray drift and spray run-off, resulting in more herbicide on the target foliage. The spray emulsion may be formed in a single tank (batch mixing) or injected (in-line mixing). Consult the invert chemical label for proper mixing directions. **DO NOT** exceed 3 quarts/Acre of **Stalker**.

### FOR SPOT TREATMENT WEED CONTROL IN GRASS PASTURE AND RANGELAND

For the control of undesirable vegetation in grass pasture and rangeland, **Stalker** may be applied as a spot treatment at a rate up to 48 fluid oz of product per treated acre using any of the described ground application methods. Spot applications to grass pasture and rangeland may not exceed more than one tenth of the area to be grazed or cut for hay. See appropriate sections of this label for specific use directions for the application method and vegetation control desired. **DO NOT** apply more than 48 fluid oz. per acre per year.

**Grazing and haying restrictions:** There are no grazing restrictions following **Stalker** application. **DO NOT** cut forage grass for hay for seven days after **Stalker** application.

### GUIDELINES FOR RANGELAND USE

**Stalker** may be applied to rangeland for the control of undesirable vegetation in order to achieve one or more of the following vegetation management objectives:

1. The control of undesirable (non-native, invasive and noxious) plant species.
2. The control of undesirable vegetation in order to aid in the establishment of desirable rangeland plant species.

3. The control of undesirable vegetation in order to aid in the establishment of desirable rangeland vegetation following a fire.
4. The control of undesirable vegetation for purposes of wild fire fuel reduction.
5. The release of existing desirable rangeland plant communities from the competitive pressure of undesirable plant species.
6. The control of undesirable vegetation for purposes of wildlife habitat improvement.

To ensure the protection of threatened and endangered plants when applying **Stalker® herbicide** to rangeland:

1. Federal agencies must follow NEPA regulations to ensure protection of threatened and endangered plants.
2. State agencies must work with the Fish and Wildlife Service or the Service's designated state conservation agency to ensure protection of threatened and endangered plants.
3. Other organizations or individuals must operate under a Habitat Conservation Plan if threatened or endangered plants are known to be present on the land to be treated.

Please see the appropriate section(s) of this label for specific use directions for the desired rangeland vegetation management objective.

**Stalker** should only be applied to a given rangeland acre as specific weed problems arise. Long term control of undesirable weed species ultimately depends on the successful use of land management practices that promote the growth and sustainability of desirable rangeland plant species.

### ROTATIONAL CROP GUIDELINE

Rotational crops may be planted twelve months after applying **Stalker** at the recommended pasture and rangeland rate. Following twelve months after a **Stalker** application, and before planting any crop, a successful field bioassay must be completed. The field bioassay consists of a test strip of the intended rotational crop planted in the previously treated area in the grass pasture/rangeland and grown to maturity. The test strip should include low areas and knolls, and include variations in soil type and pH within the treated area. If no crop injury is evident in the test strip, the intended rotational crop may be planted the following year.

Use of **Stalker** in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

### WEEDS CONTROLLED

**Stalker** will provide control of the following target vegetation species. Degree of control is both species and rate dependent.

### GRASSES

The species of annual and perennial grasses controlled by **Stalker** include the following:

Annual bluegrass (*Poa annua*)  
 Bahiagrass (*Paspalum notatum*)  
 Barnyardgrass (*Echinochloa crus-galli*)  
 Beardgrass (*Andropogon* spp.)  
 Bermudagrass (*Cynodon dactylon*)  
 Big bluestem (*Andropogon gerardii*)  
 Broadleaf signalgrass (*Brachiaria platyphylla*)  
 Canada bluegrass (*Poa compressa*)  
 Cattail (*Typha* spp.)  
 Cheat (*Bromus secalinus*)  
 Cogongrass (*Imperata cylindrica*)<sup>1</sup>  
 Crabgrass (*Digitaria* spp.)  
 Crowfootgrass (*Dactyloctenium aegyptium*)  
 Dallisgrass (*Paspalum dilatatum*)  
 Downy brome (*Bromus tectorum*)  
 Fall panicum (*Panicum dichotomiflorum*)  
 Feathertop (*Pennisetum villosum*)  
 Fescue (*Festuca* spp.)  
 Foxtail (*Setaria* spp.)  
 Giant reed (*Arundo donax*)  
 Goosegrass (*Eleusine indica*)  
 Guinea grass (*Panicum maximum*)  
 Italian ryegrass (*Lolium multiflorum*)  
 Itchgrass (*Rottboellia exaltata*)  
 Johnsongrass (*Sorghum halepense*)  
 Junglerice (*Echinochloa colonum*)  
 Kentucky bluegrass (*Poa pratensis*)  
 Lovegrass (*Eragrostis* spp.)  
 Orchardgrass (*Dactylis glomerata*)  
*Panicum* spp.  
 Paragrass (*Brachiaria mutica*)  
 Phragmites (*Phragmites australis*)  
 Prairie cordgrass (*Spartina pectinata*)  
 Prairie threeawn (*Aristida oligantha*)  
 Quackgrass (*Agropyron repens*)  
 Reed canary grass (*Phalaris arundinacea*)  
 Saltgrass (*Distichlis stricta*)  
 Sand dropseed (*Sporobolus cryptandrus*)  
 Sandbur (*Cenchrus* spp.)  
 Signalgrass (*Brachiaria platyphylla*)  
 Smooth brome (*Bromus inermis*)  
 Sprangletop (*Leptochloa* spp.)  
 Timothy (*Phleum pratense*)  
 Torpedograss (*Panicum repens*)  
 Vaseygrass (*Paspalum urvillei*)  
 Wild barley (*Hordeum* spp.)  
 Wild oats (*Avena fatua*)  
 Wirestem muhly (*Muhlenbergia frondosa*)  
 Witchgrass (*Panicum capillare*)  
 Woolly cupgrass (*Eriochloa villosa*)

<sup>1</sup> Use minimum of 48 oz per acre.

## BROADLEAF WEEDS

The species of annual and perennial broadleaf weeds controlled by **Stalker® herbicide** include the following:

Arrowwood (*Pluchea sericea*)  
 Broom snakeweed (*Gutierrezia sarothrae*)  
 Bull Thistle (*Cirsium vulgare*)  
 Burclover (*Medicago* spp.)  
 Burdock (*Arctium* spp.)  
 Camphorweed (*Heterotheca subaxillaris*)  
 Carolina geranium (*Geranium carolinianum*)  
 Carpetweed (*Mullugo verticillata*)  
 Chickweed, mouseear (*Cerastium vulgatum*)  
 Clover (*Trifolium* spp.)  
 Cocklebur (*Xanthium strumarium*)  
 Common chickweed (*Stellaria media*)  
 Common ragweed (*Ambrosia artemisiifolia*)  
 Cudweed (*Gnaphalium* spp.)  
 Dandelion (*Taraxacum officinale*)  
 Desert camelthorn (*Alhagi pseudalhagi*)  
 Diffuse knapweed (*Centaurea diffusa*)  
 Dock (*Rumex* spp.)  
 Dogfennel (*Eupatorium capillifolium*)  
 Fiddleneck (*Amsinckia intermedia*)  
 Filaree (*Erodium* spp.)  
 Fleabane (*Erigeron* spp.)  
 Giant ragweed (*Ambrosia trifida*)  
 Goldenrod (*Solidago* spp.)  
 Gray rabbitbrush (*Chrysothamnus nauseosus*)  
 Henbit (*Lamium aplexicaule*)  
 Hoary vervain (*Verbena stricta*)  
 Horsetweed (*Conyza canadensis*)  
 Indian mustard (*Brassica juncea*)  
 Japanese bamboo/knotweed (*Polygonum cuspidatum*)  
 Knotweed, prostrate (*Polygonum aviculare*)  
 Kochia (*Kochia scoparia*)  
 Lambsquarters (*Chenopodium album*)  
 Little mallow (*Malva parviflora*)  
 Milkweed (*Asclepias* spp.)  
 Miners lettuce (*Montia perfoliata*)  
 Mullein (*Verbascum* spp.)  
 Nettleleaf goosefoot (*Chenopodium murale*)  
 Oxeye daisy (*Chrysanthemum leucanthemum*)  
 Pepperweed (*Lepidium* spp.)  
 Pigweed (*Amaranthus* spp.)  
 Plantain (*Plantago* spp.)  
 Pokeweed (*Phytolacca americana*)  
 Primrose (*Oenothera kunthiana*)  
 Puncturevine (*Tribulus terrestris*)  
 Purple loosestrife (*Lythrum salicaria*)  
 Purslane (*Portulaca* spp.)  
 Pusley, Florida (*Richardia scabra*)  
 Rocket, London (*Sisymbrium irio*)  
 Rush skeletonweed (*Chondrilla juncea*)  
 Russian knapweed (*Centaurea repens*)  
 Russian thistle (*Salsola kali*)  
 Saltbush (*Atriplex* spp.)  
 Shepherd's purse (*Capsella bursa-pastoris*)  
 Silverleaf nightshade (*Solanum elaeagnifolium*)  
 Smartweed (*Polygonum* spp.)

Sorrell (*Rumex* spp.)  
 Sowthistle (*Sonchus* spp.)  
 Spurge, annual (*Euphorbia* spp.)  
 Stinging nettle (*Urtica dioica*)  
 Sunflower (*Helianthus* spp.)  
 Sweet clover (*Melilotus* spp.)  
 Tansymustard (*Descurainia pinnata*)  
 Texas thistle (*Cirsium texanum*)  
 Velvetleaf (*Abutilon theophrasti*)  
 Western ragweed (*Ambrosia psilostachya*)  
 Wild carrot (*Daucus carota*)  
 Wild lettuce (*Lactuca* spp.)  
 Wild parsnip (*Pastinaca sativa*)  
 Wild turnip (*Brassica campestris*)  
 Woollyleaf bursage (*Ambrosia grayi*)  
 Yellow starthistle (*Centaurea solstitialis*)  
 Yellow woodsorrel (*Oxalis stricta*)

## VINES AND BRAMBLES

The species of vines and brambles controlled by **Stalker** include the following:

Field bindweed (*Convolvulus arvensis*)  
 Greenbriar (*Smilax* spp.)  
 Hedge bindweed (*Calystegia sepium*)  
 Honeysuckle (*Lonicera* spp.)  
 Kudzu (*Pueraria lobata*)<sup>1,2</sup>  
 Morningglory (*Ipomoea* spp.)  
 Poison ivy (*Rhus radicans*)  
 Redvine (*Brunnichia cirrhosa*)  
 Trumpet creeper (*Campsis radicans*)  
 Virginia creeper (*Parthenocissus quinquefolia*)  
 Wild buckwheat (*Polygonum convolvulus*)  
 Wild grape (*Vitis* spp.)  
 Wild rose (*Rosa* spp.)<sup>1</sup>  
 Including: Multiflora rose (*Rosa multiflora*)  
 Macartney rose (*Rosa bracteata*)

<sup>1</sup> Use higher labeled rates.

<sup>2</sup> Use a minimum of 75 GPA - Control of established stands may require multiple applications.

## WOODY BRUSH AND TREES

The species of woody brush and trees controlled by **Stalker** include the following:

Alder (*Alnus* spp.)  
 American beech (*Fagus grandifolia*)  
 Ash (*Fraxinus* spp.)<sup>1</sup>  
 Aspen (*Populus* spp.)  
 Australian pine (*Casuarina equisetifolia*)<sup>5</sup>  
 Autumn olive (*Elaeagnus umbellata*)  
 Bald cypress (*Taxodium distichum*)<sup>4</sup>  
 Bigleaf maple (*Acer macrophyllum*)  
 Birch (*Betula* spp.)<sup>5</sup>  
 Black locust (*Robinia pseudoacacia*)<sup>5</sup>  
 Black oak (*Quercus kelloggii*)  
 Blackgum (*Nyssa sylvatica*)<sup>2</sup>  
 Boxelder (*Acer negundo*)  
 Brazilian peppertree (*Schinus terebinthifolius*)

**WOODY BRUSH AND TREES (continued)**

Ceanothus (*Ceanothus* spp.)  
 Cherry (*Prunus* spp.)<sup>1,2</sup>  
 Chinaberry (*Melia azedarach*)  
 Chinese tallow-tree (*Sapium sebiferum*)  
 Chinquapin (*Castanopsis chrysophylla*)<sup>5</sup>  
 Cottonwood (*Populus* spp.)  
 Cypress (*Taxodium* spp.)  
 Dogwood (*Cornus* spp.)<sup>1</sup>  
 Elderberry (*Sambucus* spp.)<sup>5</sup>  
 Elm (*Ulmus* spp.)<sup>5</sup>  
 Eucalyptus (*Eucalyptus* spp.)  
 Hawthorn (*Crataegus* spp.)  
 Hazel (*Corylus cornuta*)<sup>5</sup>  
 Hickory (*Carya* spp.)<sup>1</sup>  
 Holly (*Ilex* spp.)<sup>1,4</sup>  
     Including: Gallberry (*Ilex glabra*)<sup>4,5</sup>  
             Tall gallberry (*Ilex coriacea*)<sup>4</sup>  
 Yaupon (*Ilex vomitoria*)<sup>4</sup>  
 Honey locust (*Gleditsia triacanthos*)<sup>5</sup>  
 Huckleberry (*Gaylussacia* spp.)  
*Lyonia* spp.  
     Including: Fetterbush (*Lyonia lucida*)  
             Staggerbush (*Lyonia mariana*)  
 Madrone (*Arbutus menziesii*)  
 Manzanita, greenleaf (*Arctostaphylos patula*)<sup>4</sup>  
 Maple (*Acer* spp.)  
 Melaleuca (*Melaleuca quinquenervia*)  
 Mulberry (*Morus* spp.)<sup>1,3</sup>  
 Oak (*Quercus* spp.)<sup>1,3</sup>  
 Persimmon (*Diospyros virginiana*)<sup>2</sup>  
 Poison oak (*Rhus diversiloba*)  
 Poplar (*Populus* spp.)<sup>2</sup>  
 Privet (*Ligustrum vulgare*)  
 Red alder (*Alnus rubra*)  
 Red maple (*Acer rubrum*)  
 Russian olive (*Eleagnus angustifolia*)  
 Saltcedar (*Tamarix pentandra*)  
 Sassafras (*Sassafras albidum*)  
 Scotch broom (*Cytisus scoparius*)<sup>5</sup>  
 Sourwood (*Oxydendrum arboreum*)<sup>2</sup>  
 Sumac (*Rhus* spp.)  
 Sweetbay magnolia (*Magnolia virginiana*)<sup>4,5</sup>  
 Sweetgum (*Liquidambar styraciflua*)  
 Sycamore (*Platanus occidentalis*)  
 Tanoak (*Lithocarpus densiflorus*)<sup>1,4,5</sup>  
 TiTi (*Cyrilla racemiflora*)<sup>1,4</sup>  
 Tree of heaven (*Ailanthus altissima*)<sup>5</sup>  
*Vaccinium* spp.  
     Including: Blueberry (*Vaccinium* spp.)  
             Sparkleberry (*Vaccinium arboreum*)  
 Waxmyrtle (*Myrica californica*)<sup>4,5</sup>  
     (*Myrica cerifera*)<sup>4,5</sup>  
 Willow (*Salix* spp.)  
 Yellow-poplar (*Liriodendron tulipifera*)

<sup>3</sup> The degree of control may be species dependent.

<sup>4</sup> Oil emulsion carrier is recommended.

<sup>5</sup> Tankmix with **Garlon® 4** as a basal or cut stump treatment

<sup>1</sup> Use higher labeled rates.

<sup>2</sup> Best control with applications prior to formation of fall leaf color.

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## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

To the extent consistent with applicable law, BASF makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty.

To the extent consistent with applicable law, Buyer's exclusive remedy and BASF's exclusive liability, whether in contract, tort, negligence, strict liability, or otherwise, shall be limited to repayment of the purchase price of the product.

To the extent consistent with applicable law, BASF and the Seller disclaim any liability for consequential, special or indirect damages resulting from the use or handling of this product.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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**NOTIFICATION**

**JAN 15 2009**

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BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709



The Chemical Company