

Specimen Label



Transline®

Specialty Herbicide

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For control of broadleaf weeds and woody brush species in non-crop areas, forest sites, industrial manufacturing and storage sites, rights-of-way, and wildlife openings, including grazed areas on these sites, tree plantations, and rangeland and permanent grass pastures.

Active Ingredient:

clopyralid: 3,6-dichloro-2-pyridinecarboxylic acid, monoethanolamine salt	40.9%
Other Ingredients	59.1%
Total	100.0%

Acid Equivalent:
3,6-dichloro-2-pyridinecarboxylic acid - 31% (3 lb/gal)

Precautionary Statements

Hazards to Humans and Domestic Animals

EPA Reg. No. 62719-259

CAUTION

Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin

Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- 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.

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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not contaminate water used for irrigation or domestic purposes. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes. Users are advised not to apply clopyralid where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the water table of an underlying aquifer is shallow, or to soils containing sinkholes over limestone bedrock, severely fractured surfaces, and substrates which would allow direct introduction into an aquifer. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Physical or Chemical Hazards

Combustible. Do not use or store near heat or open flame.

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 in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for 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: For applications to fallow cropland, rangeland, pasture, and non-crop areas, do not enter treated areas until sprays have dried. For early entry to treated areas, wear eye protection, chemical-resistant gloves made of any waterproof material, long-sleeved shirt, long pants, shoes and socks.

Storage and Disposal

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

Pesticide Storage: Store above 28°F or warm to 40°F and agitate before use.

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

Nonrefillable containers 5 gallons or less:

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

Storage and Disposal (Cont.)

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.

Refillable containers 5 gallons or larger:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or, alternatively, recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. 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.

Nonrefillable containers 5 gallons or larger:

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. 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 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

Use Transline® specialty herbicide for postemergence control of broadleaf weeds and woody brush species in non-crop areas including equipment pathways, industrial manufacturing and storage sites, forest sites and rights-of-way, such as along roadsides, electrical lines and railroads. Use on these sites may include application to grazed areas as well as establishment and maintenance of wildlife openings, wild parkland and wildlife management areas, and forest spot application adjacent to these sites. Transline is labeled for control of broadleaf weeds in cottonwood/poplar and eucalyptus tree plantations; and in rangeland and permanent grass pastures in certain western states.

Precautions and Restrictions

- Use directions in Dow AgroSciences supplemental labeling may supersede directions or limitations in this labeling.
- Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.
- Do not use in greenhouses.
- **In California**, the maximum application rate is 2/3 pint per acre per annual use season.
- **In Florida**, Transline can only be used for the control of kudzu in forests, utility rights-of-way, roadsides, fence lines, and other non-crop areas in the following counties: Baker, Bay, Bradford, Calhoun, Columbia, Escambia, Franklin, Gadsden, Gulf, Hamilton, Holmes, Jackson, Jefferson, Lafayette, Leon, Liberty, Madison, Okaloosa, Santa Rosa, Suwannee, Taylor, Union, Wakulla, Walton, and Washington.
- **Chemigation:** Do not apply this product through any type of irrigation system.

- **Rotation to Broadleaf Crops:** Do not plant broadleaf crops in treated areas until an adequately sensitive bioassay crop, such as soybean or other legume, shows that clopyralid is no longer detectable in the soil.
- **Grazing/Haying:** There are no restrictions on grazing or hay harvest following application of Transline at labeled rates.
- Do not transfer livestock from treated grazing areas, or from feeding of treated hay, to sensitive broadleaf crop areas without first allowing 7 days of grazing on an untreated pasture (or feeding of untreated hay). If livestock are transferred within less than 7 days of grazing untreated pasture or eating untreated hay, urine and manure may contain enough clopyralid to cause injury to sensitive broadleaf plants.
- Some desirable broadleaf plants (forbs) are susceptible to Transline. Do not spray pastures containing desirable forbs, especially legumes, unless injury can be tolerated. However, the stand and growth of established perennial grasses is usually improved after treatment, especially if rainfall is adequate for active plant growth and grazing is deferred.
- Established grasses are tolerant to Transline, but newly seeded grasses may be injured until well established as indicated by tillering, development of a secondary root system, and vigorous growth.
- Do not use hay or straw from treated areas for garden mulch on susceptible broadleaf crops.
- **Field Bioassay Instructions:** In fields previously treated with this product, plant short test rows of the intended rotational crop across the original direction of application in a manner to sample field conditions such as soil texture, soil pH, drainage, and any other variable that could affect the seed bed of the new crop. Field bioassay at any time prior to the planting of the intended rotational crop. Observe the test crop for herbicidal activity, such as poor stand (effect on seed germination), chlorosis (yellowing), and necrosis (dead leaves or shoots), or stunting (reduced growth). If herbicidal symptoms do not occur, the test crop can be grown. If there is apparent herbicidal activity, wait one year before repeating bioassay or plant a crop tolerant to clopyralid such as barley, canola (rapeseed), grasses, field corn, oats, sugar beets, or wheat.

Avoid Injury to Non-Target Plants

This product can affect susceptible broadleaf plants directly through foliage and indirectly by root uptake from treated soil. Therefore, do not apply Transline directly to, or allow spray drift to come in contact with, vegetables, flowers, tomatoes, potatoes, beans, lentils, peas, alfalfa, sunflowers, soybeans, safflower, or other desirable broadleaf crops or ornamental plants. Establish small areas of new legume seedlings prior to seeding more extensive areas in order to determine if phytotoxic residues are present in the soil of previously treated areas at levels that could inhibit legume establishment.

Unless otherwise specified on this label or supplemental labeling for Transline, do not apply this product to any broadleaf crop or ornamental planting or to areas where sensitive plants will be planted during the same growing season. (See Rotation to Broadleaf Crops.)

Residues in Plants or Manure: Do not use plant residues, including hay or straw from treated areas, or manure or bedding straw from animals that have grazed or consumed forage from treated areas, for composting or mulching, where susceptible plants may be grown the following season. Do not spread manure from animals that have grazed or consumed forage or hay from treated areas on land used for growing susceptible broadleaf crops, ornamentals, orchards, or other susceptible desirable plants. Plant materials or manure may contain enough clopyralid to cause injury to susceptible plant species. To promote herbicidal decomposition, plant residues should be evenly incorporated or burned. Breakdown of clopyralid in crop residues or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation.

Avoid Spray Drift

Avoid spray drift since very small quantities of the spray, which may not be visible, may severely injure susceptible broadleaf plants during active growth or dormant periods. Use coarse sprays to minimize drift. To aid in further reducing drift, a drift control or deposition agent suitable for agricultural use may be used with this product. If used, follow all use directions and precautions on the product label.

Ground Application: With ground equipment, minimize spray drift by keeping the spray boom as low as possible, by applying 10 gallons or more of spray per acre, by keeping the operating spray pressures at the manufacturer's minimum specified pressures for the specified nozzle type used (low pressure nozzles are available from spray equipment manufacturers), and by spraying when the wind velocity is low (follow state regulations). Avoid application under completely calm conditions which may be conducive to air inversion. In hand-gun applications, select the minimum pressure required to obtain adequate plant coverage without forming a mist. Do not apply with a mist blower.

Aerial Application: With aircraft, minimize drift by using straight stream nozzles directed straight back; by using a spray boom no longer than 3/4 of the rotor or wing length of the aircraft; by using drift control systems or drift control additives; and, by keeping spray pressures low enough to provide coarse spray droplets. Do not use a thickening agent with the Microfoil or Thru-Valve booms, or other systems that cannot accommodate thick sprays. Spray only when wind velocity is low (follow state regulations). Avoid calm conditions which may be conducive to air inversions.

Do not apply by aircraft when an air temperature inversion exists. Such a condition is characterized by little or no wind and lower air temperature near the ground than at higher levels. The use of a smoke device on the aircraft or continuous smoke column at or near the site of application will indicate air direction and velocity, and whether a temperature inversion is present, as indicated by horizontal layering of the smoke.

Sprayer Clean-Out

To avoid injury to desirable plants, thoroughly clean equipment used to apply Transline before reusing to apply any other chemicals.

1. Rinse and flush application equipment thoroughly at least three times with water after use. Dispose of rinse water by applying to treatment area or to non-cropland area away from water supplies.
2. During the second rinse, add 1 quart of household ammonia for every 25 gallons of water. Circulate the solution through the entire system so that all internal surfaces are contacted (15 to 20 minutes). Let the solution stand for several hours, preferably overnight.
3. Flush the solution out of the spray tank through the boom.
4. Rinse the system twice with clean water, recirculating and draining each time.
5. Remove nozzles and screens and clean separately.

Mixing Directions

Transline – Alone: To prepare a water dilution of Transline:

1. Add 3/4 of the required spray volume to the spray tank and start agitation.
2. Add the required amount of Transline.
3. Add any surfactants, adjuvants or drift control agents according to manufacturer's label.
4. Agitate during final filling of the spray tank and maintain sufficient agitation during application to ensure uniformity of the spray mixture.

Note: Allow time for thorough mixing of each spray ingredient before adding the next. If allowed to stand after mixing, agitate spray mixture before use.

Transline - Tank Mix:

This product may be applied in tank mix combination with labeled rates of other products provided (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; and (2) tank mixing is not prohibited by the label of the tank mix product.

Tank Mixing Precautions:

- Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
- 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 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. (See Sprayer Clean-Out.)
- Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

Tank Mix Compatibility Testing: A jar test is recommended prior to tank mixing to ensure compatibility of Transline and other pesticides. Use a clear glass quart jar with lid and mix the tank mix ingredients in the required order and 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.

Application Directions

Application Timing

Apply to actively growing weeds. Extreme growing conditions, such as drought or near freezing temperatures, prior to, at, or following application may reduce weed control. Only weeds that have emerged at the time of application will be affected. Wet foliage at the time of application may decrease control. Applications of Transline are rainfast within 2 hours after application.

Application Rates

Generally, application rates at the lower end of the rate range will be satisfactory for young, succulent growth of susceptible 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 rates within the rate range will be needed.

Use of Adjuvants

Addition of surfactants, crop oils, or other adjuvants may increase effectiveness of Transline. If an adjuvant is added to the spray solution, follow all manufacturer use guidelines. When an adjuvant is to be used with this product, Dow AgroSciences recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

Spray Coverage

Use sufficient spray volume to provide thorough coverage and a uniform spray pattern. Do not broadcast apply in less than 2 gallons of total spray volume per acre. For best results and to minimize spray drift, apply in a spray volume of 10 gallons or more per acre. As vegetative canopy and weed density increase, increase spray volume to obtain equivalent weed control. Use only nozzle types and spray equipment designed for herbicide application. To reduce spray drift, follow precautions under Avoid Injury to Non-Target Plants.

Cut Surface Application

Apply Transline in rights-of-way and other non-crop areas to control unwanted trees and vines in the legume family such as mimosa, locust, redbud, or wisteria. Transline can be used either undiluted or diluted in a 1 to 1 ratio with water, as directed below.

Tree Injector Method: Apply by injecting 1/2 milliliter of undiluted Transline or 1 milliliter of the diluted solution through the bark at intervals of 3 to 4 inches between centers of the injector wound. Completely surround the tree with injections at any convenient height. **Note:** No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is injected directly into plants.

Hack and Squirt Method: Make cuts with a hatchet or similar equipment at intervals of 3 to 4 inches between centers at a convenient height around the tree trunk. Spray 1/2 milliliter of undiluted Transline or 1 milliliter of the diluted solution into each cut.

Frill or Girdle Method: Make a single girdle through the bark completely around the tree at a convenient height. Wet the cut surface with undiluted or diluted solution.

Stump Application

Spray or paint the cut surfaces of freshly cut stumps and stubs with a 50/50 mix of Transline and water. The cambium area next to the bark is the most vital area to wet. Apply Transline as soon as the tree or vine has been cut.

Broadleaf Weeds Controlled

acacias	locoweed, white
artichoke, Jerusalem	locoweed, lambert
buckwheat, wild	marshelder
buffalobur ¹	mesquite
burdock, common	nightshade, eastern black
chamomile, false (scentless)	nightshade, cutleaf
chamomile, mayweed (dogfennel)	nightshade, hairy
clover, black medic	oxeye daisy
clover, hop	pineappleweed
clover, red	ragweed, common
clover, white	ragweed, giant
cocklebur, common	salsify, meadow (goatsbeard)
coffeeweed	sicklepod
cornflower (bachelor button)	smartweed, green ¹
dandelion	sorrel, red
dock, curly	sowthistle, annual
groundsel, common	sowthistle, perennial ¹
hawksbeard, narrowleaf	starthistle, yellow
hawkweed, orange	sunflower (common and wild)
hawkweed, yellow	teasel, common
horseweed	thistle, artichoke
jimsonweed	thistle, bull
knapweed, diffuse	thistle, Canada (rosette to bud)
knapweed, Russian ¹	thistle, musk (rosette to bud)
knapweed, spotted	thistle, Italian
ladysthumb ¹	vetch
lettuce, prickly	

¹These weeds may only be suppressed. Suppression is a visual reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree and duration of weed control will vary with weed size and density, application rate and coverage, and

growing conditions before, during, and after treatment. For perennial weeds, such as Russian knapweed and perennial sowthistle, Transline will control the initial top growth and inhibit regrowth during the season of application (season long control). At higher use rates shown on this label, Transline may cause a reduction in shoot regrowth in the season following application; however, plant response may be inconsistent due to inherent variability in shoot regrowth from perennial root systems.

Broadleaf Weeds Controlled (California Only)

knapweed, diffuse	thistle, artichoke
knapweed, Russian ¹	thistle, Canada (rosette to bud)
knapweed, spotted	thistle, Italian
starthistle, yellow	thistle, musk (rosette to bud)

¹These weeds may only be suppressed. Suppression is a visual reduction in weed competition (reduced population or vigor) as compared to untreated areas. The degree and duration of weed control will vary with weed size and density, application rate and coverage, and growing conditions before, during, and after treatment.

Woody Plants and Vines Controlled

eastern redbud	mimosa (silktree)
kudzu	wisteria
locust (spp)	

Uses

Christmas Tree Plantations (All States Except Florida)

Use Transline for over the top application to actively growing balsam fir, blue spruce, Douglas fir, fraser fir, grand fir, lodgepole pine, noble fir, ponderosa pine, and white pine. In the Pacific Northwest, do not apply in the first year of transplanting because some needle curling has been observed on first year transplants. Apply to actively growing weeds.

Application Timing

For control of annual weeds, apply Transline from weed emergence up to the 5-leaf stage of growth (for best results on wild buckwheat, application at 3 to 5 leaf stage of growth, but before vining). For control of weeds such as Canada thistle and knapweeds, apply after the majority of the basal leaves have emerged up to bud stage. Later application may result in less consistent control.

Broadcast Application

Apply 1/4 to 1/2 pint of Transline per acre for control of annual weeds. Apply 1/2 to 2/3 pint of Transline per acre for difficult to control weeds such as Canada thistle and knapweeds. Apply as a broadcast application in a minimum of 5 gallons per acre by ground application.

Spot Application

Apply spot applications at an equivalent broadcast rate of 1/2 to 2/3 pint per acre. Follow instructions for hand-held sprayers below. Direct spray onto weeds and avoid spraying trees where possible.

Hand-Held Sprayers: Hand-held sprayers may be used for spot applications of Transline if care is taken to apply the spray uniformly and at a rate equivalent to a broadcast application. Application rates in the table are based upon an area of 1000 sq ft. Mix the amount of Transline (fl oz or mL) corresponding to the desired broadcast rate in 1 gallon or more of spray. To calculate the amount of Transline required for larger areas, multiply the table value (fl oz or mL) by the area to be treated in "thousands" of square feet, e.g., if the area to be treated is 3500 sq ft, multiply the table value by 3.5 (calculation, 3500 ÷ 1000 = 3.5). An area of 1000 sq ft is approximately 10.5 x 10.5 yards (strides) in size.

Amount of Transline to Treat an Area of 1000 sq ft (Mix in 1 Gallon or More of Spray)		
1/4 pt/acre	1/2 pt/acre	2/3 pt/acre
3/32 fl oz (2.8 mL)	3/16 fl oz (5.5 mL)	1/4 fl oz (7.3 mL)

Tank Mixing

Transline may be applied in tank mix combination with other herbicides as per label directions for Christmas tree plantations. Carefully follow applicable use directions, precautions and limitations on the product labels of each tank mix product used.

Specific Use Precaution:

- True firs (grand, noble, and pacific silver firs) show more needle curling than other conifers when higher rates are used. Use lower rates in rate range for broadcast applications or use directed sprays where possible if needle curling is undesirable.

Specific Use Restrictions:

- Re-treat as necessary, but do not apply more than 2/3 pint of Transline per acre per annual growing season.
- Blue spruce:** Do not exceed 1/2 pint per acre per annual growing season.
- Tree injury may occur with the addition of a surfactant or crop oil with Transline. Do not use unless previous experience shows injury is tolerable.
- Do not apply with an air blast sprayer.

Cottonwood/Poplar and Eucalyptus Tree Plantations (All States Except Florida)

Use Transline for postemergence control of labeled broadleaf weeds in new and established plantings of cottonwood/poplar and eucalyptus tree plantations. Apply as a broadcast foliar spray over trees or as a banded or directed spray at a rate of 1/3 to 2/3 pint per acre. Apply in 10 gallons or more per acre total spray volume using ground equipment only. Multiple applications may be made as long as the total rate per annual use season does not exceed 1 1/3 pint per acre. Apply to new plantings only after they are well established as indicated by several inches of new healthy growth.

Hand-Held Sprayers

Spot applications using hand-held equipment are also allowed, but do not contact tree foliage or limit contact to lower branches. Apply to weeds on a spray to wet basis with uniform and complete spray coverage. Do not spray to the point of runoff. Prepare a spray solution by adding 1/4 fl oz of Transline per gallon of water. When applied at 1 gallon of spray per 1000 sq ft, this spray concentration is equivalent to a broadcast rate of 2/3 pint per acre.

Specific Use Precautions and Restrictions:

- Do not tank mix Transline with other herbicides labeled for this use unless spray avoids all contact with tree foliage.
- Certain broadleaf weeds, such as mustards, henbit, chickweed, kochia, lambsquarters, pigweed, Russian thistle and bindweed, will not be controlled or suppressed.

Forest Sites, Including Tree Plantings (All States Except Florida)

Apply Transline for control of certain problem weeds growing in forest sites, including tree plantings. Apply Transline either at site preparation or after trees are planted (tree release). Applications of Transline over the top of tolerant tree species may be made anytime during the season; however, some needle/leaf curling may occur if applied during active tree growth. This effect is transient and trees should recover by the end of the same growing season or early in the following growing season.

Examples of tolerant tree species:

alder	grand fir	Norway spruce	sugar maple
black walnut	green ash	pacific silver fir	sumac
bur oak	hackberry	ponderosa pine	sycamore
cherry	hickory	red oak	Virginia pine
cherry bark oak	hybrid aspen	red pine	western red cedar
choke cherry	hybrid poplar	Russian olive	western hemlock
cottonwood	incense cedar	sawtooth oak	white ash
crabapple	loblolly pine	Scotch pine	white pine
Douglas fir	lodgepole pine	slash pine	white spruce
eastern red cedar	longleaf pine	shortleaf pine	white oak
European larch	noble fir		

Broadcast Application

Apply the required amount of Transline in 5 gallons of water or more per acre to achieve thorough and uniform spray coverage of target weeds using ground equipment or helicopter.

Transline will not control mustards, henbit, chickweed, kochia, lambsquarters, pigweed, Russian thistle and bindweed.

Weed Species	Application Rate (pint/acre)	Application Timing
general weed control	1/4 - 1 1/3	Apply when weeds are small and actively growing. The lower rate of 1/4 pt per acre provides acceptable control of weeds only under highly favorable plant growing conditions and when weeds are no more than 3 to 6 inches tall.
knapweed, diffuse knapweed, spotted thistle, Canada	1/3 - 1 1/3	For best results, apply after the majority of basal leaves have emerged, up to early bud stage. Treatments applied prior to the emergence of the majority of basal leaves or at later growth stages may result in only partial control.
hawkweeds starthistle, yellow thistle, bull thistle, musk	2/3 - 1 1/3	For best results, apply from rosette to bolting stage of growth.
kudzu		Applications are most effective between late June and early October as long as the kudzu are actively growing and not under drought stress. The ideal time to apply is during vigorous growth and just prior to or during flowering.

Spot Application

Apply spot applications at an equivalent broadcast rate. Follow instructions for hand-held sprayers below. Direct spray onto weeds and avoid spraying trees where possible.

Hand-Held Sprayers: Hand-held sprayers may be used for spot applications of Transline if care is taken to apply the spray uniformly and at a rate equivalent to a broadcast application. Application rates in the table are based upon an area of 1000 sq ft. Mix the amount of Transline (fl oz or mL) corresponding to the desired broadcast rate in 1 gallon or more of spray. To calculate the amount of Transline required for larger areas, multiply the table value (fl oz or mL) by the area to be treated in "thousands" of square feet, e.g., if the area to be treated is 3500 sq ft, multiply the table value by 3.5 (calculation, 3500 ÷ 1000 = 3.5). An area of 1000 sq ft is approximately 10.5 x 10.5 yards (strides) in size.

Amount of Transline to Treat an Area of 1000 sq ft (Mix in 1 Gallon or More of Spray)		
2/3 pt/acre	1 pt/acre	1 1/3 pt/acre
1/4 fl oz (7.3 mL)	3/8 fl oz (11 mL)	1/2 fl oz (15 mL)

Tank Mixing

Transline may be applied in tank mix combination with Accord® Concentrate herbicide, Accord SP, Arsenal A.C., Garlon® 4 specialty herbicide, Garlon 3A, Glypho® herbicide, Glypho Plus, 2,4-D, atrazine, Oust or Velpar DF herbicides as per label directions for forest site uses. Carefully follow applicable use directions, precautions and limitations on the product labels of each tank mix product used because products other than Transline may cause injury when Transline could be used alone without injury.

Specific Use Precautions:

- Application of Transline to broadleaf (hardwood) tree species may cause some leaf burning and malformation. This injury is transient in nature, except for plants in the legume family (see below). Addition of surfactant or crop oil may increase the severity of this injury.
- True firs (grand, noble, and pacific silver firs) show more needle curling than other conifers when higher rates are used. Use lower rates in the rate range for broadcast applications or use directed sprays where possible if needle curling is undesirable.
- Application of Transline to plants in the legume family (such as locust, redbud, mimosa and lupine) or to box elder, persimmon or sassafras will cause severe damage or destruction of such plants.

Specific Use Restrictions:

- Applications of Transline over actively growing conifers may cause some needle curling. Tree injury in the form of needle curling may be increased by the addition of a surfactant or crop oil with broadcast applications of Transline. Do not use a surfactant or crop oil unless previous experience shows such injury can be tolerated.
- Do not use in forest nursery beds.

Non-Crop Areas

All States Except California and Florida

For use on non-crop areas, such as industrial manufacturing and storage sites, and rights-of-way, such as along roadsides, electrical power lines, communication lines, pipelines and railroads, including grazed areas on these sites and forest spot application adjacent to these sites.

Note: Transline is not registered for use in landscaping or on turfgrass or lawns. **In Oregon,** do not use on non-crop areas such as industrial manufacturing and storage sites.

Broadcast Application (Ground or Aerial): For control of broadleaf weeds, apply 1/4 to 1 1/3 pint of Transline [equivalent to 0.09 to 0.5 lb acid equivalent (ae)] per acre. Use a non-ionic surfactant in spray mixtures at 1 to 2 quarts per 100 gallons of spray mixture. The lower rate of 1/4 pint per acre provides acceptable control of weeds under highly favorable plant growing conditions only and when plants are no more than 3 to 6 inches tall. Where Canada thistle or knapweed is the primary pest, best results are obtained by applying 2/3 to 1 1/3 pint of Transline per acre after basal leaves are produced. Transline can be applied in an invert emulsion using oil and an appropriate inverting agent. Follow label directions of the inverting agent. Established grasses are tolerant to Transline, but new grass seedlings may be injured to varying degrees until the grass has become well established as indicated by vigorous growth and development of tillers and secondary roots.

High-Volume Leaf Stem Application (Ground): For control of broadleaves and certain woody plants (e.g., mesquite), use 1 to 3 quarts of Transline per 100 gallons of total spray. Thorough coverage is necessary for good results; therefore, apply as a complete spray to wet foliar application, including all leaves, stems, and root collars, but do not apply more than a total of 1 1/3 pint of Transline per acre. To minimize drift, use low spray pressure and keep sprays no higher than the tree crowns. Trees taller than 8 feet in height may be difficult to treat efficiently and obtain thorough coverage.

Unsatisfactory control may result if application is made when brush and weeds are under severe drought stress or other adverse conditions that inhibit plant growth. Environmental conditions may significantly influence results. For best results on mesquite, apply in the spring or early summer, 40 to 90 days after the first green growth appears and when soil moisture is adequate for active growth. A soil temperature of 75 to 83°F at a depth of 12 to 18 inches is optimal for good plant kills. Soil temperature of less than 75°F at this depth will reduce the ultimate root kill of mesquite.

California Only

For use on non-crop areas, such as industrial manufacturing and storage sites, and rights-of-way, such as along roadsides, electrical power lines, communication lines, pipelines and railroads, including grazed areas on these sites and forest spot application adjacent to these sites.

Broadcast Application (Ground or Aerial): For control of broadleaf weeds, apply 1/4 to 2/3 pint of Transline (equivalent to 0.09 to 0.25 lb ae) per acre. Use a non-ionic surfactant in spray mixtures at 1 to 2 quarts per 100 gallons of spray mixture. The lower rate of 1/4 pint per acre provides acceptable control of weeds under highly favorable plant growing conditions only and when plants are no more than 3 to 6 inches tall. Where Canada thistle or knapweed is the primary pest, best results are obtained by applying 2/3 pint of Transline per acre after basal leaves are produced. Spray volumes of 20 gallons or more per acre for ground roadside and right-of-way applications and spray volumes of 5 gallons or more per acre for aerial applications will ensure adequate coverage. Transline can be applied in an invert emulsion using oil and an appropriate inverting agent. Follow label directions of the inverting agent. Established grasses are tolerant to Transline, but new grass seedlings may be injured to varying degrees until the grass has become well established as indicated by vigorous growth and development of tillers and secondary roots.

Kudzu Control

(All States Except California)

Restriction: In Florida, use Transline only for the control of kudzu in forests, utility rights-of-way, roadsides, fence lines, and other non-crop areas in the following counties: Baker, Bay, Bradford, Calhoun, Columbia, Escambia, Franklin, Gadsden, Gulf, Hamilton, Holmes, Jackson, Jefferson, Lafayette, Leon, Liberty, Madison, Okaloosa, Santa Rosa, Suwannee, Taylor, Union, Wakulla, Walton, and Washington.

Use Transline to control kudzu in forests, utility rights-of-way, roadsides, and other non-crop areas in established plantings of tolerant tree species as a broadcast foliar spray over trees, as a banded or directed spray (in a spray volume of 10 gallons or more per acre), or as a spot application. Apply Transline between late June and early October as long as the kudzu is actively growing and not under drought stress. The ideal application time is during vigorous growth and just prior to or during flowering. Only kudzu that has emerged at the time of application will be affected. See Application Timing section.

Broadcast Application (Ground or Aerial): Apply at a rate of 2/3 to 1 1/3 pint of Transline (equivalent to 0.25 lb to 0.5 lb ae) per acre. Make sequential applications as long as the total rate per annual use season does not exceed 1 1/3 pint per acre. Do not apply more than 1 1/3 pint per acre per year. The lower rate of 2/3 pint per acre provides acceptable control of kudzu under highly favorable plant growing conditions only and when plants are no larger than 3 to 6 inches tall. Spray volumes of 20 gallons or more per acre for ground roadside and rights-of-way applications and spray volumes of 5 gallons or more per acre for aerial applications will ensure adequate coverage. Transline can be applied in an invert emulsion using oil and an appropriate inverting agent. Follow label directions of the inverting agent.

Spot Applications: Hand-held sprayers may be used for spot applications of Transline if care is taken to apply the spray uniformly and at a rate equivalent to a broadcast application. When applied as a spot treatment, apply to kudzu on a spray to wet basis (not to runoff). Avoid contact with foliage of cottonwood/poplar trees or limit contact to lower branches. Application rates in the following table are based upon an area of 1000 sq ft. Mix the amount of Transline (fl oz or mL) corresponding to the desired rate in one gallon or more of spray. To calculate the amount of Transline required for larger areas, multiply the table value (fl oz or mL) by the area to be treated in "thousands" of square feet. For example, if the area to be treated is 3500 sq ft, multiply the table value by 3.5 (calculation: 3500 ÷ 1000 = 3.5).

Pints of Transline per Acre Equivalent to Rates in fl oz or mL per 1000 sq ft		
2/3 pint per acre	1 pint per acre	1 1/3 pint per acre
1/4 fl oz (7.3 mL)	3/8 fl oz (11 mL)	1/2 fl oz (15 mL)

Tank Mixing: Transline may be applied in tank mix combination with other herbicides provided the tank mix product is labeled for the timing and application method for the use site to be treated and tank mixing is not prohibited by the label of the tank mix product. See

Weed Species	Application Rate (pint/acre)	Application Timing
thistle, musk	1/3 - 1 ¹	Apply from rosette to early bolt growth stage.
thistle, artichoke thistle, Italian	1/3 - 2/3	Apply at the rosette growth stage.
starthistle, yellow	1/2 - 1	Apply from rosette to mid-bolt growth stage
knapweed, diffuse knapweed, spotted	2/3 - 1	Apply any time plants are actively growing, including fall regrowth. Optimum time is from mid bolt to late bud stage of growth.
thistle, artichoke thistle, Italian		Apply during the bolting growth stage.
thistle, Canada	2/3 - 1 1/3	Apply after the majority of basal leaves have emerged through the beginning of the bud stage. Application may also be made to fall regrowth
knapweed, Russian (suppression)	1 - 1 1/3	Apply from bud to mid-flower growth stage or treat fall regrowth.

¹Transline may be applied to musk thistle in the rosette stage at 1/3 pint per acre only when applied in tank mixture with 2,4-D at 1/2 to 1 lb ae per acre. Otherwise, apply Transline to musk thistle at 2/3 to 1 pint per acre.

Exported Grass Hay (Oregon and Washington ONLY)

Use the following chart if the target grass crop will be exported to clopyralid-sensitive destinations.

Timing of Application	Spring Cutting	Fall Cutting	Spring Cutting Subsequent Year ¹	Fall Cutting Subsequent Year ¹
before spring cutting	do not export	may be exported	may be exported	may be exported
after spring cutting	N/A	do not export	may be exported	may be exported
after fall cutting	N/A	N/A	may be exported	may be exported

N/A – not applicable

¹If no clopyralid applications are made in subsequent year.

- Make fall applications while grass and weeds are actively growing.
- Make fall applications as close to last cutting as possible in order to reduce clopyralid residues in hay the following year.
- Adequate soil moisture, particularly with fall applications, will help weed control as well as reduce clopyralid residues in hay.
- In areas where three cuttings can be made, avoid exporting the first cutting after a clopyralid application.

Mixing Directions section. Carefully follow applicable use directions, precautions and limitations on the product labels of each tank mix product used because products other than Transline may cause injury when Transline could be used alone without injury.

Specific Use Precautions:

- Application of Transline to broadleaf (hardwood) tree species may cause some leaf burning and malformation. This injury is transient in nature, except for plants in the legume family. Addition of surfactant or crop oil may increase the severity of this injury.
- True firs (grand, noble, and pacific silver firs) show more needle curling than other conifers when higher rates are used. Use lower rates in the rate range for broadcast applications or use directed sprays where possible if needle curling is undesirable.
- Application of Transline to plants in the legume family (such as locust, redbud, mimosa and lupine) or to box elder, persimmon or sassafras will cause severe damage or destruction of such plants.

Specific Use Restrictions:

- Applications of Transline over actively growing conifers may cause some needle curling. Tree injury in the form of needle curling may be increased by the addition of a surfactant or crop oil with broadcast applications of Transline. Do not use a surfactant or crop oil unless previous experience shows such injury can be tolerated.
- Do not use in forest nursery beds.

Rangeland and Permanent Grass Pastures (California, Colorado, Idaho, Montana, Nebraska, Nevada, Oregon, South Dakota, Utah, Washington and Wyoming ONLY)

Use Transline to control susceptible broadleaf weeds on rangeland areas, shelterbelts, Conservation Reserve Program acres, or established forage grasses in permanent grass pastures. Best results on most weeds are obtained when weeds are small and actively growing (see specific information below) and application is made in 10 gallons or more per acre of water using ground equipment.

There are no grazing or haying restrictions following Transline applications when used at labeled rates.

Application Rates

Apply Transline at a rate of 1/3 to 1 1/3 pint per acre when weeds are young and actively growing. Apply Transline as described below for control of spotted and diffuse knapweed, Canada thistle, musk thistle, yellow starthistle and suppression of Russian knapweed. Use the lower labeled application rate for young, actively growing weeds. Use the higher rate under less favorable growing conditions or on dense weed stands and/or larger weeds. Transline may also be tank mixed with 2,4-D at 1/2 to 1 lb ae per acre where weed species present are susceptible to 2,4-D.

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2. Replacement of amount of product used.

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Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268**

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Revisions:

1. Removed Arizona restriction.
2. Added Christmas tree plantations and exported grass hay.
3. Added alder to forest sites.