

DIRECTED FOLIAR APPLICATION FOR CONIFER RELEASE - WHITE PINE, ETC. - CONTROL AND SUPPRESSION OF BRUSH AND WEEDS SPECIES

General Information

GENERAL INFORMATION

CHOPPER is an aqueous formulation that is readily mixable with water, diesel oil, or recommended seed oils and penetrating oils. For foliar applications, CHOPPER may be mixed with water as the spray carrier or an emulsion carrier may be prepared by mixing CHOPPER into water and then adding a suitable seed oil at 12 to 50%, by volume. CHOPPER is to be mixed with water or a penetrating oil and applied as a spray to cut stumps. CHOPPER should be mixed with a penetrating oil for application to the basal area of brush and trees. Adequate agitation should be maintained with all CHOPPER 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!

CHOPPER is recommended for vegetation control in forestry sites. Roadsides contiguous with the treated area may be included.

CHOPPER is recommended for control of vegetation in forestry site preparation, in directed applications for conifer release and for mid-rotation release using understory broadcast applications.

CHOPPER is also recommended for the control of undesirable vegetation along non-irrigation ditch banks and for the establishment and maintenance of wildlife openings, except in the state of California. See use directions for CUT STUMP TREATMENTS, TREE INJECTION TREATMENTS, FRILL OR GRIDLE TREATMENTS, THINLINE BASAL AND STEM APPLICATIONS, LOW VOLUME BASAL BARK TREATMENTS and LOW VOLUME FOLIAR APPLICATIONS in the label.

CHOPPER 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 man-made bodies of water such as lakes, reservoirs, ponds, streams, rivers and canals.

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.

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.

Limitations, Restrictions, and Exceptions

DIRECTED FOLIAR APPLICATIONS FOR CONIFER RELEASE

CHOPPER 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 (generally 10 gallons total spray per acre or less) in labeled conifer stands of all ages by targeting the unwanted vegetation and avoiding direct application to the conifer. Ensure that the maximum labeled rates per acre listed for the conifer species are not exceeded.

For applications directed to the foliage of undesirable brush mix 2 to 10% CHOPPER 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. For low volume foliar applications to control big leaf maple a 5% by volume CHOPPER solution or emulsion is recommended.

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 CHOPPER 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.

GRASSES

Cogongrass (*Imperata cylindrica*): Use minimum of 48 oz per acre.

VINES AND BRAMBLES

Honeysuckle (*Lonicera* spp.), Wild rose (*Rosa* spp.): Use higher labeled rates.

WOODY BRUSH AND TREES

Ash (*Fraxinus* spp.), Bigleaf maple (*Acer macrophyllum*), Cherry (*Prunus* spp.), Dogwood (*Cornus* spp.), Hickory (*Carya* spp.), Holly (*Ilex* spp.), Mulberry (*Morus* spp.), Oak (*Quercus* spp.), Tanoak (*Lithocarpus densiflorus*), TiTi (*Cyrilla racemiflora*), Yellow-poplar (*Liriodendron tulipifera*): Use higher labeled rates.

Blackgum (*Nyssa sylvatica*), Cherry (*Prunus* spp.), Persimmon (*Diospyros virginiana*), Poplar (*Populus* spp.), Sourwood (*Oxydendrum arboreum*): Best control with applications prior to formation of fall leaf color.

Mulberry (*Morus* spp.), Oak (*Quercus* spp.): The degree of control may be species dependent.

Bald cypress (*Taxodium distichum*), Chinquapin (*Castanopsis chrysophylla*), Holly (*Ilex* spp.), Gallberry (*Ilex glabra*), Tall gallberry (*Ilex coriacea*), Yaupon (*Ilex vomitoria*), Manzanita, greenleaf (*Arctostaphylos patula*), Sweetbay magnolia (*Magnolia virginiana*), Tanoak (*Lithocarpus densiflorus*), TiTi (*Cyrilla racemiflora*), Waxmyrtle (*Myrica californica*), Waxmyrtle (*Myrica cerifera*): Oil emulsion carrier is

recommended.

Australian pine (*Casuarina equisetifolia*), Black locust (*Robinia pseudoacacia*), Elderberry (*Sambucus* spp.), Elm (*Ulmus*), Hazel (*Corylus cornuta*), Gallberry (*Ilex glabra*), Honeylocust (*Gleditsia triacanthos*), Scotch broom (*Cytisus scoparius*), Sweetbay magnolia (*Magnolia virginiana*), Tanoak (*Lithocarpus densiflorus*), Tree of heaven (*Ailanthus altissima*), Waxmyrtle (*Myrica californica*), Waxmyrtle (*Myrica cerifera*): Tank mix with Garlon 4 as a basal or cut stump treatment

Method

[Foliar spray](#)

[Directed](#)

Rates

[field_rates 0](#)

•

Restricted Entry Interval

12 hours

Timings

[Postemergence \(Weed\)](#)