Galigan® H₂O HERBICIDE

ACTIVE INGREDIENT: % BY WT.
Oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl) benzene* ............................................. 41.0%
INERT INGREDIENTS: .................................................................................................................. 59.0%
TOTAL ........................................................................................................................................... 100.0%

Contains 4 pounds active ingredient per gallon.

EPA Reg. No. 66222-140

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF ON SKIN OR CLOTHING:
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15-20 minutes.
• Call a poison control center or doctor for treatment advice.

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

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

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact Prosar at 1-877-250-9291 for 24-hour emergency medical help.

For additional precautionary, handling and use statements, see inside of this booklet.
**PRECAUTIONARY STATEMENTS**

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, 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. Wear appropriate protective equipment as specified in the PERSONAL PROTECTIVE EQUIPMENT (PPE) section below.

**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 6 on an EPA chemical-resistance category selection chart.

**Mixers, loaders, and applicators using engineering controls (see engineering controls requirements below) must wear:**
- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves when mixing and loading
- Chemical-resistant apron when mixing and loading

**All other mixers, loaders, applicators, and other handlers must wear:**
- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or Viton ≥ 14 mils
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when exposed to the concentrate

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. Discard clothing and other absorbent materials that have been drenched or heavily contaminat-ed with this product’s concentrate. Do not reuse them.

**ENGINEERING CONTROLS**

Mixers and loaders supporting aerial applications to follow land or ground applications to corn, cotton, or soybeans must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], and must:
- Wear the personal protective equipment required above for mixers/loaders using engineering controls,
- Wear protective eyewear if the system operates under pressure, and
- Be provided and have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown: coverall, and chemical-resistant footwear.

Handlers performing applications to corn must use an enclosed cab that meets the definition in the Worker Protection Standard for agricultural pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, such applicators must:
- Wear the personal protective equipment required above for applicators using engineering controls,
- Be provided and have immediately available for use in an emergency when they must exit the cab in the treated area; coveralls, chemical-resistant gloves, chemical-resistant footwear, and chemical-resistant headgear, if overhead exposure,
- Take off any PPE that was worn in the treated area before reentering the cab, and
- Store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

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

**USER SAFETY RECOMMENDATIONS**

**Users should:**
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove contaminated clothing and wash clothing before reuse.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. See DIRECTIONS FOR USE for additional restrictions. Do not contaminate water when disposing of equipment washwaters. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

**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, 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 work-ers 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). The REI is 24 hours for all crops except the following:
- Onions, garlic, and horse-radish: The REI is 48 hours.
- Conifer seedlings: The REI is three days.
- Conifer trees: The REI is six days.

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

**GENERAL USE INFORMATION**

Galigan® H₂O may be applied for preemergence and postemergence weed control. All directions and restrictions for use found in the general use information and specific crop sections of this label must be followed.

**CULTURAL CONSIDERATIONS**

In order for Galigan H₂O to provide maximum preemergence activity: Prior to application, the bed or soil surface should be smooth and free of crop and weed trash (decaying leaves, clippings, head weeds, etc.). Leaves and trash may be removed by blowing the area to be treated or by thoroughly mixing the trash into the soil through cultivation prior to herbicide application.

After application, at least one-quarter inch (1/4 inch) of irrigation or rainfall should occur within 3 or 4 weeks after application. The best results from Galigan H₂O are from applications to established beds or soil surfaces that are left undisturbed during the time period for which weed control is desired. Cultural practices that result in redistribution or disturbance of the soil surface after treatment will decrease the herbicidal effectiveness of Galigan H₂O. Cutting water furrows or cultivations that mix untreated soil into treated areas will also reduce the effectiveness of the treatment.

**Selective weed control:**

Some products listed on this label provide selective weed control. Selective weed control occurs when the target weeds are killed without impact to desirable crops or vegetation.

**RATE RANGES**

Select proper application rates based on soil conditions, weed spectrum, and desired period of residual weed control.

**Preemergence Application:** Where rate ranges are given, use the lower rate in the rate range on coarse textured soils with less than 1% organic matter. Use higher rates in the rate range on medium to fine textured soils, soils containing greater than 1% organic matter, or where a longer period of residual weed control is desired.

**Postemergence Application:** Where a rate range is given, use higher rate in rate range for heavy weed infestations, weeds in advanced stages of growth, or where a longer period of residual weed control is desired.

**MIXING DIRECTIONS**

Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the recommended amount of herbicides to the spray tank. The order of addition to the spray tank should be wettability powders first, followed by solid, and liquid last. Complete filling of the spray tank with water. For all applications of Galigan H₂O (except onions) where postemergence weed control is desired, add 2 to 4 pints of 80% active nonionic surfactant cleared for application to growing crops per each 100 gallons of spray. The addition of 4 pints of nonionic surfactant per 100 gallons of spray is recommended to enhance postemergence activity when hard water (greater than 600 ppm) is used as a carrier. Maintain agitation until spraying is completed.

Spray equipment should be calibrated carefully before each use. Dosages listed on this label are for broadcast application. For banded application, the amount of Galigan H₂O used per acre should be reduced according to the following formula:

\[
\text{Band Width (in inches)} \times \text{Rate per Row Width (in inches)} = \text{Amount Needed per Acre for Banded Application}
\]

**Tank Mixing Precautions**

- Read and carefully follow all applicable use directions, precautions, and limitations on the respective product labels. In interpreting the labels of tank mixed products, the most restrictive label limitations must apply.
- Do not exceed recommended 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.

Compatibility testing for tank mixing partners: Test compatibility of the intended tank mixture before adding Galigan H₂O herbicide to the spray or tank mix. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 – 30 minutes. Formation of precipitates that do not readily re-disperse indicates an incompatible mixture that should not be used.
**CROP SPECIFIC USE INFORMATION**

**ARTICHOKE (GLOBE)**

**POST-DIRECTED SPRAY**

**GENERAL INFORMATION**

Galigan H₂O is an effective herbicide for postemergence and preemergence control of listed broadleaf weeds in artichokes. Galigan H₂O should be directed toward the winter ditch, levees, or flat rows between the artichoke rows. Artichoke fronds receiving accidental spray or drift will be injured. Over-the-top applications may exhibit severe injury to the foliage and flower bud and are not recommended.

**DOSEAGE**

Galigan H₂O is recommended as a post-directed application at 2 to 3 pints (1 to 1.5 lb. active) per acre. Optimum control is achieved when two applications of Galigan H₂O are applied. The initial application should be made to susceptible weed seedlings (up to 8-leaf stage). It is recommended that a second application be made 8 to 10 weeks later. Good results may be achieved when a single application of 3 pints (1.5 lb. active) of Galigan H₂O is applied to susceptible weed seedlings (up to 8-leaf stage). Do not apply more than 3 pints (1.5 lb. active) of Galigan H₂O per treated acre per season as a result of a single application or multiple applications. Do not apply within 5 days of harvest.

**WEEDS CONTROLLED POSTEMERGENCE**

- CHEESEWEED (MALVA) - Oxalis (Bermuda Buttercup)
- GROUNDSEL, COMMON - Shepherdspurse
- MUSTARD, COMMON YELLOW - Sowthistle, Annual

**WEEDS CONTROLLED PREEMERGENCE**

- CHEESEWEED (MALVA) - Oxalis (Bermuda Buttercup)
- GROUNDSEL, COMMON - Shepherdspurse
- LAMBSQUARTERS, COMMON - Sowthistle, Annual
- MUSTARD, COMMON YELLOW - *Suppression

**TIMING AND METHOD OF APPLICATION**

Treatments should be made after completion of the ditching operation. Galigan H₂O should be applied in a minimum of 40 gallons of water per acre depending upon density of emerged weeds. Spray volume should be increased as weed height and density increase. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use. Spray should be directed toward the winter ditch, levees, or flat rows between the artichoke rows. ARTICHOKE FRONDS RECEIVING ACCIDENTAL SPRAY OR DRIFT WILL BE INJURED.

**ARTICHOKE (GLOBE)**

**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe **GENERAL USE RESTRICTIONS** listed at the beginning of this label.

- Do not apply more than 3 pints (1.5 lb. active) of Galigan H₂O per treated acre per season as a result of a single application or multiple applications.
- Do not apply Galigan H₂O within 5 days of harvest.
- Avoid direct spray or drift contact of Galigan H₂O with artichoke flowers or buds as severe injury may result.
- Do not apply Galigan H₂O to artichoke plantings within 60 days after cutting back or transplanting.

**BROCCOLI / CAULIFLOWER / CABBAGE**

**PRE-TRANSPLANT (PREPLANT) APPLICATION FOR PREEMERGENCE BROADLEAF WEED CONTROL**

**GENERAL INFORMATION**

Galigan H₂O may be applied for preemergence control of listed annual broadleaf weeds. Applications must be made after completion of soil preparation but prior to transplanting of broccoli, cabbage, or cauliflower plants. Transplanting should be completed with minimal soil disturbance. Treated soil surfaces should be left undisturbed after transplanting to obtain greatest benefit of Galigan H₂O on susceptible annual broadleaf weeds during the time period for which weed control is desired. However, timely cultivations after weed emergence will assist in weed control. Pre-transplant applications of Galigan H₂O in broccoli, cabbage, and cauliflower may result in a temporary initial crop response (leaf cupping or crinkling). Crop response may be enhanced if crop leaves come in direct contact with treated soil. Crops rapidly outgrow this condition and develop normally. Severe crop response may result from the use of transplants that are under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides, or storage conditions. The use of young (less than 5 weeks old), extremely succulent transplants grown in containers, less than 1 inch square, may increase the severity of crop injury. Hardening off, increasing the age of transplants, or increasing the size of the rooting container will lessen the possibility and/or severity of crop injury.

**DOSEAGE**

Galigan H₂O is recommended for use at 0.5 to 1 pint (0.25 to 0.5 lb. active) per broadcast acre. Use the lower rate in the rate range for preemergence weed control on medium to fine textured soils or soils containing greater than 1% organic matter. Use the highest rate in the rate range for preemergence weed control on coarse textured soils with less than 1% organic matter. Use the highest rate in the rate range for preemergence weed control on coarse textured soils with less than 1% organic matter. Do not use Galigan H₂O in an enclosed greenhouse structure as injury to plant foliage may result.

**BROCCOLI, CAULIFLOWER, CABBAGE**

**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe **GENERAL USE RESTRICTIONS** listed at the beginning of this label.

- Do not apply more than 1 pint (0.5 lb. active) Galigan H₂O per treated acre per season.
- Do not apply Galigan H₂O preemergence to direct-seeded broccoli, cabbage, or cauliflower.
- Do not apply Galigan H₂O post-transplant or postemergence (over-the-top) to broccoli, cabbage, or cauliflower except as allowed in the following section for postemergence applications in broccoli and cauliflower only in California.
- For field use only. Do not apply Galigan H₂O in an enclosed greenhouse structure as injury to plant foliage may result.

**BROCCOLI / CAULIFLOWER – CALIFORNIA ONLY**

**APPLICATION FOR POSTEMERGENCE USE**

**GENERAL INFORMATION**

Galigan H₂O may be applied as a broadcast or directed spray for the postemergence suppression/control of susceptible broadleaf weed species in direct-seeded or transplanted broccoli and cauliflower.

**CROP TOLERANCE INFORMATION**

Broccoli and cauliflower are tolerant to postemergence applications of Galigan H₂O; however, under certain conditions, Galigan H₂O can cause severe crop injury. Application to crops grown under field conditions (e.g., cool, wet conditions) can produce leaf cupping, crinkling, stunting, or necrotic lesions. When injury occurs, it is usually limited to the treated leaves with new leaves emerging undamaged. Delay in crop development and or maturity and yield reduction can result under these conditions. Do not use Galigan H₂O on plants that are weakened or are under stress due to temperature, disease, fertilizer, soil salts, nematodes, insects, pesticides, drought, excessive moisture, flooding, or soil crusting.

**METHOD OF APPLICATION**

Apply Galigan H₂O as a broadcast postemergence application at the rate of 4 to 6 fl. oz. per acre (0.125 – 0.188 lb. active). Galigan H₂O may also be applied as a directed application at a rate of 4 to 6 fl. oz. per acre (0.125 – 0.25 lb. active). Directed applications are those where spray mixtures are applied in such a way as to minimize contact to crop leaves, directing the spray toward the soil at the base of the crop. For direct-seeded crops, apply when the crop reaches a minimum of four true leaves. For transplanted crops, apply after a minimum of two weeks after planting.

**For postemergence use in broccoli and cauliflower, do not mix Galigan H₂O with adjuvants (oils, surfactants), liquid fertilizer, or pesticides. Apply only with ground equipment in a spray volume of 20 gallons or more of water per acre. Increase the spray volume to ensure complete and uniform coverage as weed height and density increases. Use a low-pressure sprayer equipped with flat fan nozzles operated at the manufacturer’s recommended pressure.

**WEEDS CONTROLLED OR SUPPRESSED POSTEMERGENCE**

Galigan H₂O provides postemergence control/suppression of the following weeds when used at recommended dosages.

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burning nettle</td>
<td>Urtica urens</td>
</tr>
<tr>
<td>Cheeseweed (Malva)</td>
<td>Malva parviflora</td>
</tr>
<tr>
<td>Nightshade, black</td>
<td>Solanum nigrum</td>
</tr>
<tr>
<td>Pigweed, redroot</td>
<td>Amaranthus retroflexus</td>
</tr>
<tr>
<td>Purslane, common</td>
<td>Portulaca oleracea</td>
</tr>
<tr>
<td>Shepherdspurse</td>
<td>Capsella bursa-pastoris</td>
</tr>
<tr>
<td>Sowthistle, annual</td>
<td>Sonchus oleraceus</td>
</tr>
</tbody>
</table>

**CULTURAL CONSIDERATIONS**

Best weed control results when Galigan H₂O is applied to young (1 – 4 leaf), actively growing weeds.
**BROCCOLI, CAULIFLOWER (CALIFORNIA ONLY)\**

**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe **GENERAL USE RESTRICTIONS** listed at the beginning of this label.

- For direct-seeded crops, do not apply more than the 8 fl. oz. per acre (0.25 lb. active) per crop as a postemergence treatment.
- For transplanted crops, do not apply more than 8 fl. oz. per acre (0.25 lb. active) per crop as a post-transplant treatment. If a pre-transplant (preplant) treatment has previously been made, the combination of pre-plus post-transplant treatments must not exceed 16 fl. oz per acre per season (0.5 lb. active).
- Do not apply within 35 days of harvest.
- Do not apply when weather conditions favor drift. Avoid drift to all non-target areas. Galigan H₂O is phytotoxic to susceptible plant foliage.

**GEOGRAPHIC USE DIRECTIONS – ARIZONA, CALIFORNIA, FLORIDA, LOUISIANA, AND TEXAS**

- **DOSEAGE**
  - Galigan H₂O herbicide is recommended for preemergence and postemergence control of susceptible weeds at 1 to 4 pints (0.5 to 2.0 lbs. active) per broadcast acre where directed to the orchard floor beneath cacao plants or at a dosage of up to 2 pints per acre as a pre-transplant application. For selected crops, Galigan H₂O herbicide is recommended for postemergence control at 1 to 4 pints per acre in a single application or 12 pints (8.0 lb. active) per broadcast acre per year.
  - Do not apply Galigan H₂O within one (1) day of harvest.
  - Direct spray toward the base of the trees. Avoid spray contact with foliage.
  - Do not apply preplant or preemergence to direct-seeded cacao.

**CITRUS (NON-BEARING)**

**CALAMONDIN, CHIRONJA, CITRUS CITRON, GRAPEFRUIT, KUMQUAT, LEMON, LIME, MAN- DARIN, PUMMELLO, SATSUMA MANDARIN, SOUR ORANGE, SWEET ORANGE, TANGELO, TANGERINE, TANGERINE**

**FOR USE ONLY IN PERMANENTLY ESTABLISHED GROVES IN ARIZONA, CALIFORNIA, FLORIDA, LOUISIANA, AND TEXAS**

**GENERAL INFORMATION**

Galigan H₂O is effective as a preemergence herbicide when used alone or in recommended tank-mix combinations for the control of certain annual broadleaf weeds in non-bearing citrus plantings. Galigan H₂O can be applied to newly planted trees or to young trees that will not bear fruit within one year.

The most effective postemergence weed control is achieved when Galigan H₂O is applied to seedling weeds at the recommended growth stage. For broader spectrum postemergence control of certain grassy and broadleaf weeds, a tank mix of Galigan H₂O with paraquat (Gramoxone®) or other products containing paraquat or glyphosate (Glyphoxmax® Herbicide or other products containing glyphosate) may also be added to the tank mixture. Check individual product labels to determine suitability and use rates for various crops.

**GALIGAN H₂O USED ALONE\**

**DOSEAGE**

Galigan H₂O herbicide is recommended for preemergence and postemergence control of susceptible weeds at 1 to 4 pints (0.5 to 2.0 lbs. active) per broadcast acre where directed to the orchard floor beneath cacao plants or at a dosage of up to 2 pints per acre as a pre-transplant application. For direct-seeded crops, Galigan H₂O herbicide is recommended for postemergence control at 1 to 4 pints per acre in a single application or 12 pints (8.0 lb. active) per broadcast acre per year.

**SPECIFIC USE RESTRICTIONS**

- Do not apply within 35 days of harvest.
- Do not apply when weather conditions favor drift. Avoid drift to all non-target areas. Galigan H₂O is phytotoxic to susceptible plant foliage.

**CITRUS (NON-BEARING)**

**CALAMONDIN, CHIRONJA, CITRUS CITRON, GRAPEFRUIT, KUMQUAT, LEMON, LIME, MAN- DARIN, PUMMELLO, SATSUMA MANDARIN, SOUR ORANGE, SWEET ORANGE, TANGELO, TANGERINE, TANGERINE**

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**GENERAL INFORMATION**

Galigan H₂O is effective as a preemergence herbicide when used alone or in recommended tank-mix combinations for the control of certain annual broadleaf weeds in non-bearing citrus plantings. Galigan H₂O can be applied to newly planted trees or to young trees that will not bear fruit within one year.

The most effective postemergence weed control is achieved when Galigan H₂O is applied to seedling weeds at the recommended growth stage. For broader spectrum postemergence control of certain grassy and broadleaf weeds, a tank mix of Galigan H₂O with paraquat (Gramoxone®) or other products containing paraquat or glyphosate (Glyphoxmax® Herbicide or other products containing glyphosate) may also be added to the tank mixture. Check individual product labels to determine suitability and use rates for various crops.
DOSAGE
For preemergence control of susceptible grassy and broadleaf weeds in non-bearning citrus plantings, a tank mixture of Galigan H₂O with Devrinol, simazine, Solicam, or Surflan can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels. For postemergence control of susceptible grassy and broadleaf weeds, a tank mixture of parachlor (such as Gramoxone) or glyphosate (such as Roundup) with Galigan H₂O or combinations of Galigan H₂O plus Devrinol, simazine, Solicam, or Surflan can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

WEEDS CONTROLLED
In addition to the weeds controlled by Galigan H₂O used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

- Devrinol
- Simazine*
- Solicam
- Glyphosate
- Surflan

*In addition, provides preemergence control of horseweed (marestail).

SPECIFIC USE RESTRICTIONS
 Glyphosate Surflan
Paraquat (such as Gramoxone) Solicam
Devrinol Simazine*

To 50 gallons of water per acre. Apply at 20 to 40 psi.

ANNUAL BROADLEAF WEEDS IN BEARING AND NON-BEARING COFFEE PLANTINGS. FOR POSTEMERGENCE CONTROL

GENERAL INFORMATION

- Do not apply preplant or preemergence to direct-seeded coffee.
- Do not apply over-the-top to coffee transplants after buds start to swell.
- Do not apply more than 4 pints (2.0 lbs. active) per broadcast acre of Galigan H₂O in a single application or more than 3 pints of Galigan H₂O (1.5 lbs. active) per broadcast acre during any 12-month period as a result of multiple applications.
- Galigan H₂O or any of the combinations recommended on this label should only be applied to healthy growing trees.
- Do not apply during periods of new foliage growth. Applications should be made after foliage has fully expanded and hardened off.
- Direct spray toward the base of trees. Avoid direct spray contact on the citrus foliage.
- Do not harvest within 385 days (one year of last application).

CLARY SAGE
(NORTH CAROLINA ONLY)

GENERAL INFORMATION
Galigan H₂O is a selective herbicide which can be used for the control of henbit (Lamium amplexicaule) in Clary Sage (Salvia sclarea) used in the essence industry.

Applications to control henbit during the winter season should be timed to start shortly after the first flush of henbit in the 2- to 4-leaf stage. Additional applications may be required to control subsequent weed flushes through the spring season. Clary Sage may respond to the topical application with some marginal leaf burn, recovery is rapid. After spraying, henbit will stop growing and slowly die.

DOSAGE
Galigan H₂O should be applied at a rate of 0.25 to 0.5 pint per acre (0.12 to 0.25 lb. active). Galigan should be thoroughly mixed with clean water at recommended concentrations and applied in 20 to 50 gallons of water per acre. Apply at 20 to 40 psi.

BEARING AND NON-BEARING COFFEE (HAWAII ONLY)

GENERAL INFORMATION
Galigan H₂O is effective as a preemergence herbicide when used alone for the control of certain annual grassy and broadleaf weeds, a tank mixture of either parachlor or glyphosate with Galigan H₂O can be applied to seedling weeds. Check individual product labels to determine suitability and use rates for crops.

GALIGAN H₂O USED ALONE

DOSAGE
For preemergence control of susceptible weeds, Galigan H₂O is recommended at 1 to 4 pints (0.5 to 2.0 lbs. active) per broadcast acre as a preemergence application directed to the orchard floor beneath coffee plants or at a dosage of up to 2 pints per broadcast acre as a pre-transplant application. For directed spray applications, coffee transplants must be healthy and of suitable size for field transplanting. Avoid spray contact with coffee foliage as injury may result. Galigan H₂O may be applied postemergence (over-the-top) to dormant coffee transplants. Applications must only be made prior to bud break to avoid possible phytotoxicity to the coffee foliage. Over-the-top applications made after buds start to swell may result in injury to the coffee plant and are not recommended. Dosages listed on this label are for broadcast application. For banded application, the amount of Galigan H₂O used per acre should be reduced according to the following formula:

Band Width (in inches) X Rate per = Amount Needed per Acre
Row Width (in inches) Broadcast Acre for Banded Application

WEEDS CONTROLLED

Apply to 1 to 4 pints (0.5 to 2.0 lbs. active) of Galigan H₂O per broadcast acre. Applications to weeds beyond the four-leaf stage may result in partial control.

PURLSLANE, COMMON SPURGE, GARDEN

WEEDS CONTROLLED PREEMERGENCE

Apply to 1 to 4 pints (0.5 to 2.0 lbs. active) of Galigan H₂O per broadcast acre. Applications to weeds beyond the four-leaf stage may result in partial control.

AGERATUM PURLSLANE, COMMON SPURGE, GARDEN
BOTTLEWEED CROTALARIA

TIMING AND METHOD OF APPLICATION
DO NOT APPLY PREPLANT OR PREEMERGENCE TO DIRECT-SEEDDED COFFEE. Treatments should only be applied to healthy coffee stock (as determined by standard commercial growing practices). Care must be taken to prevent direct spray contact with foliage. Coffee foliage receiving an accidental spray or drift may be injured. As a preemergence or postemergence treatment to weeds, apply in a minimum of 30 gallons of water per acre. Use higher volumes to ensure adequate coverage in high densities of emerged weeds or heavy trash. Galigan H₂O should be directed to the soil and the base of the tree. Use of a low-pressure sprayer equipped with a breakeraway boom and flat fan or off-center (OC) nozzles is recommended. Spray equipment should be calibrated carefully before each use.

TANK MIXES WITH GALIGAN H₂O

IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

For postemergence control of susceptible grassy and broadleaf weeds in coffee plantings, a tank mixture of Galigan H₂O with either glyphosate or paraquat may be applied as a directed spray. Apply at recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

WEEDS CONTROLLED POSTEMERGENCE
In addition to the weeds controlled by Galigan H₂O used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained:

- parquat
- glyphosate

BEARING AND NON-BEARING COFFEE (HAWAII ONLY)

SPECIFIC USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label:

- Do not apply preplant or preemergence to direct-seeded coffee.
- Do not apply over-the-top to coffee transplants after buds start to swell.
- Galigan H₂O may be applied as a postemergence (over-the-top) application to dormant transplants. Do not apply over-the-top to coffee transplants after buds start to swell.
- Galigan H₂O or any of the combinations recommended on this label should be applied to only healthy growing trees/transplants under standard commercial growing practices.
- Do not apply more than 4 pints (2.0 lbs. active) per broadcast acre of Galigan H₂O in a single application or 12 pints (6.0 lbs. active) per broadcast acre per year.
- Do not apply Galigan H₂O within one (1) day of harvesting.
- Applications of Galigan H₂O during periods of rapid new foliage growth may cause injury.

CONIFER SEEDBEDS, TRANSPLANTS, CONTAINER STOCK AND SELECTED FIELD-GROWN DECIDUOUS TREES

GENERAL INFORMATION
Galigan H₂O is effective as a preemergence and/or postemergence herbicide for the control of certain annual grassy and broadleaf weeds in conifer seedbeds, transplants, and container stock, and in selected field-grown deciduous trees. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Treated soil surfaces should not be disturbed as the herbicidal effectiveness of Galigan H₂O may be decreased. Seeding weeds are controlled during emergence as they come in contact with the soil-applied herbicide. The most effective postemergence weed control is achieved when Galigan H₂O is applied to seedling weeds less than 4 inches in height.

Occasionally after the use of Galigan H₂O, spotting, crinkling, or flecking may appear on leaves of conifer and deciduous species. Leaves that receive direct or indirect (drift) spray contact may be injured. The conifer and deciduous species typically outgrow this condition rapidly and develop normally.

IMPORTANT: When applied as directed, the conifer and selected deciduous species listed on this label have shown tolerance to Galigan H₂O. It is impossible, however, to evaluate this product on all varieties, biotypes, and cultivars of listed species on this label or under all possible growing conditions. The user should exercise reasonable judgement and caution with this product. Until familiar with results under user growing conditions, limit application of this product to a few plants in a small treated area to determine plant tolerance and extent of injury if such occurs prior to initiating large-scale applications.

WEEDS CONTROLLED
When Galigan H₂O is applied preemergence or postemergence at recommended dosages and weed stages, the following grasses and broadleaf weeds are controlled.

- *BARNYARDGRASS
- *BEDSTRAW, CATCHWEED
- *BITTERCRESS, LESSER
- *BLUEGRASS, ANNUAL
- *BUCKWHEAT, WILD
- *BURCLOVER
- *CARPETWEED
- *CLOVER, RED
- *CLOVER, WHITE
- *Cocklebur, common
- *CRABGRASS, LARGE
- *FIDDLENECK, COAST
- *FILAREE, BROADLEAF
- *FILAREE, REDSTEM
- *FIREWEED (FROM SEED)
- *FLAXWEED
- *FEKTOLEAF, GIANT
- *GOGOOSEGRASS
- *GROUNDCHERRY, CUTLEAF
- *GROUNDCHERRY, WRIGHT
- *GROUNDSHEL, COMMON
- *HENBIT
- *JIMSONWEED
- *KNOTWEED, PROSTRATE
- *LADYSTHUMB
- *LAMBSQUARTERS, COMMON
- *LETUCE, PRICKLY
- *MALLOW, LITTLE
- *MALLOW, black
- *MALLOW, RED
- *MALLOW, WHITE
- *MALLOW, Woody
- *MINE’S LETTUCE
- *MORNINGSGLORY, IVYLEAF
- *MORNINGSGLORY, TALL
- *MUSTARD, BLUE
- *MUSTARD, TUMBLE
- *MUSTARD, WILD
- *NETTLE, BURNING
- *NIGHTSHADE, BLACK
- *NIGHTSHADE, HAIRY
- *OATS, WILD
- *ORACH, RED
- *PEPPERWEED, YELLOWFLOWER
- *Pigweed, prostrate
- *Pigweed, redroot
- *Pimpernel, scarlet
- *Purslane, common
- *Redmaids
- *Rockets, LONDON
- *Sandspurry, red
- *Shepherdspurse
- *SiDA, prickly
- *Smartweed, Pennsylvania
- *SORREL, RED (FROM SEED)
- *SOVTHISTLE, ANNUAL
- *Speedwell, birdseye
- *Spurge, SPOTTED
- *Spurry corn
- *TansyMustard
- *Thistle, bull
- *Thistle, Russian
- *Valvetleaf
- *Witchgrass
- *Woodsorrel, yellow
Galigan H₂O is most effective when applied preemergence to annual grasses. Postemergence applications should be made to seedling grasses not exceeding the 2-leaf stage. The addition of 0.25% (2 pints per 100 gallons of spray solution) of an 80% active nonionic surfactant, cleared for applications should be made to seedling grasses not exceeding the 2-leaf stage. The addition of 0.25% (2 pints per 100 gallons of spray solution) of an 80% active nonionic surfactant, cleared for application to growing crops, enhances the Galigan H₂O activity on emerged weeds. When determining an appropriate use rate where a range of rates is provided, use higher rates where heavy weed pressure is anticipated, or where medium and fine soil textures exist and high organic matter soils are present.

**CONIFER SEEDBEDS**

To assist in the establishment of conifer seedbeds, Galigan H₂O can be applied as a preemergence application following seeding. Postemergence applications should be delayed until a minimum of 5 weeks after emergence of the conifer seedlings. During periods of cool, cloudy weather, make certain that seedlings have hardened off prior to spraying. Conifers are tolerant to preemergence and postemergence applications of Galigan H₂O. Galigan H₂O will provide both postemergence and residual preemergence control of many broadleaf weeds and annual grass species.

**CONIFER SPECIES**

Galigan H₂O may be applied to conifer seedbeds of species including the following:

<table>
<thead>
<tr>
<th>COMMON NAME</th>
<th>SCIENTIFIC NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas Fir</td>
<td>Pseudotsuga menziesii</td>
</tr>
<tr>
<td>Fir</td>
<td>Abies fraseri</td>
</tr>
<tr>
<td>Grand Fir</td>
<td>Abies grandis</td>
</tr>
<tr>
<td>Noble Fir</td>
<td>Abies procera</td>
</tr>
<tr>
<td>Hemlock</td>
<td>Tsuga canadensis</td>
</tr>
<tr>
<td>Western Hemlock</td>
<td>Tsuga heterophylla</td>
</tr>
</tbody>
</table>

**TIMING AND METHOD OF APPLICATION**

For optimum weed control, preemergence applications should be made immediately after transplanted seedlings or to weed-free container stock. Postemergence applications should be made to weeds less than 4 inches in height. Two applications may be necessary in fall-transplanted plants prior to bud break or after foliage has had an opportunity to harden off. Thoroughly mix with clean water at recommended concentration and apply at 20 to 40 psi in a minimum of 20 gallons of water per treated acre. Spray over the top of transplants. Heavy rainfall immediately following application to emerged weeds may reduce effectiveness.

**TANK MIXTURES FOR SELECTED FIELD-GROWN CONIFERS**

In addition to the weeds controlled by Galigan H₂O used alone, tank mixes with other preemergence or postemergence herbicides registered for this use may provide a broader spectrum of weed control. Galigan H₂O may be tank mixed with products containing the following active ingredients registered for use in conifer plantings:

<table>
<thead>
<tr>
<th>Herbicide</th>
<th>Scientific Name</th>
<th>Usage Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glyphosate</td>
<td>Prodamine</td>
<td>Do not apply more than 4 pints (2.0 lbs. active) of this product per broadcast acre per year. NOT FOR CONIFER RELEASE IN FOREST MANAGEMENT PROGRAMS OR FOR FOREST REGENERATION APPLICATIONS. Do not apply Galigan H₂O in an enclosed greenhouse structure as injury to plant foliage may result. Do not store or transport treated container stock in an enclosed structure until completion of 4 irrigations (minimum 21 days) as injury to non-labeled plants may occur. Always apply Galigan H₂O only to healthy conifer stock. Do not apply Galigan H₂O to conifers that are under stress from excessive fertilizer or soil salts, disease, nematodes, frost, drought, flooding, previously applied pesticides, soil insects, or winter injury as severe injury may result. Do not graze or feed livestock forage cut from areas treated with Galigan H₂O.</td>
</tr>
<tr>
<td>Napropamide</td>
<td>Pronamide</td>
<td></td>
</tr>
<tr>
<td>Oryzalin</td>
<td>Sethoxydim</td>
<td></td>
</tr>
<tr>
<td>Pendimethalin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Determine the additional weed species to be controlled, and based on label claims, select the product(s) which would give effective control of the targeted weeds(s). When using tank mixes of two or more products, use conditions must be in accordance with the most restrictive of the label limitations and precautions of the mixing partners.

**IMPORTANT:** Read and follow container labels of tank-mix partners and use as directed by labeling. Follow the most restrictive labeling.

**CONIFER TRANSPLANTS AND CONTAINER STOCK (INCLUDES 2-0 SEEDLING AND CHRISTMAS TREE PLANTINGS)**

**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe **GENERAL USE RESTRICTIONS** listed elsewhere on this label.

- Do not apply more than 4 pints (2.0 lbs. active) of this product per broadcast acre per year.
- Do not apply Galigan H₂O in a closed greenhouse structure as injury to plant foliage may result.
- Do not store or transport treated container stock in an enclosed structure until completion of 4 irrigations (minimum 21 days) as injury to non-labeled plants may occur. Always apply Galigan H₂O only to healthy conifer stock. Do not apply Galigan H₂O to conifers that are under stress from excessive fertilizer or soil salts, disease, nematodes, frost, drought, flooding, previously applied pesticides, soil insects, or winter injury as severe injury may result. Do not graze or feed livestock forage cut from areas treated with Galigan H₂O.

**SELECTED FIELD-GROWN DECIDUOUS TREES**

Many field-grown deciduous trees are tolerant to applications of Galigan H₂O directed to the soil and base of the plant. Galigan H₂O will provide both preemergence and postemergence control of many broadleaf weeds and grasses.

**DECIDUOUS TREE SPECIES**

<table>
<thead>
<tr>
<th>COMMON NAME</th>
<th>SCIENTIFIC NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Almond</em></td>
<td>Prunus spp.</td>
</tr>
<tr>
<td><em>Apple</em></td>
<td>Malus X domestica</td>
</tr>
<tr>
<td><em>Apricot</em></td>
<td>Prunus spp.</td>
</tr>
<tr>
<td><em>Ash, Green</em></td>
<td>Fraxinus pennsylvanica</td>
</tr>
<tr>
<td><em>Ash, White</em></td>
<td>Fraxinus americana</td>
</tr>
<tr>
<td><em>Birch, River</em></td>
<td>Betula nigra</td>
</tr>
<tr>
<td><em>Cherry</em></td>
<td>Prunus spp.</td>
</tr>
<tr>
<td><em>Chesnut</em></td>
<td>Castanea spp.</td>
</tr>
<tr>
<td><em>Crabapple</em></td>
<td>Malus spp.</td>
</tr>
<tr>
<td><em>Dogwood</em></td>
<td>Cornus florida</td>
</tr>
<tr>
<td><em>Eucalyptus</em></td>
<td>Eucalyptus viminalis, Eucalyptus pulverulenta, Eucalyptus camaldulensis</td>
</tr>
<tr>
<td><em>Filbert</em></td>
<td>Corylus spp.</td>
</tr>
<tr>
<td><em>Lilac</em></td>
<td>Syringa vulgaris</td>
</tr>
<tr>
<td><em>Locust, Black</em></td>
<td>Robinia pseudacacia</td>
</tr>
<tr>
<td><em>Maple, Black</em></td>
<td>Acer nigrum</td>
</tr>
<tr>
<td><em>Maple, Red</em></td>
<td>Acer rubrum</td>
</tr>
<tr>
<td><em>Maple, Sugar</em></td>
<td>Acer saccharum</td>
</tr>
<tr>
<td><em>Myrtle, Crepe</em></td>
<td>Lagerstroemia indica</td>
</tr>
<tr>
<td><em>Nectarine</em></td>
<td>Prunus spp.</td>
</tr>
<tr>
<td><em>Nut, Hickory</em></td>
<td>Carya spp.</td>
</tr>
<tr>
<td><em>Nut, Macadamia</em></td>
<td>Macadamia ternifolia</td>
</tr>
</tbody>
</table>

(continued on next page)
DECIDUOUS TREE SPECIES (continued)

COMMON NAME | SCIENTIFIC NAME
--- | ---
Oak, Chestnut | Quercus prinus
Oak, Pin | Quercus palustris
Oak, Red | Quercus rubra
Oak, Water | Quercus nigra
Oak, Willow | Quercus phellos
Olive, Russian | Elaeagnus angustifolia
Poplar | Populus spp.
Poplar, Tulip | Liriodendron tulipifera
**Peach** | Prunus persica
**Pear** | Pyrus spp.
**Pecan** | Carya spp.
**Pistachio** | Pistacia vera
**Plum** | Prunus spp.
**Prune** | Prunus spp.
Redbud | Cercis canadensis
Sweetgum | Liquidambur styraciflua
Sycamore | Platanus occidentalis
**Walnut, Black** | Juglans nigra

*Do not apply to maple trees used for production of maple sap or maple syrup.

**Apply as directed to non-bearing trees. For bearing tree fruit, nut, and vine crops, refer to the TREE FRUIT, NUT, VINE SECTION of this label for use directions.

**DOSEAGE**

Apply 1 to 3 pints (0.5 to 1.5 lbs. active) of Galigan H₂O per acre as a spray to the soil area surrounding deciduous plants for preemergence or early postemergence weed control. This product may be applied as a single or split application. DO NOT apply more than 3 pints (1.5 lbs. active) per season.

For spot treatments, refer to the following table for dosage recommendations. Sprays must be uniform and applied to the soil on a spray-to-wet basis. When spraying to control weeds on a preemergence or postemergence basis, 1 gallon of spray mixture should cover 400 square feet. (This is equivalent to applying Galigan H₂O at a rate of approximately one gallon per acre in a spray volume of 110 gallons per acre.) It is recommended that an 80% active nonionic surfactant be added to the spray mixture at a rate of 1 tablespoon (0.5 fluid ounces) per gallon of spray when making postemergence applications.

### TIMING

Galigan H₂O can be applied after transplanting or to established deciduous trees. For optimum weed control, applications should be made prior to weed germination.

For maximum safety to deciduous species mentioned on this label, post-directed applications of Galigan H₂O should be made to the soil prior to bud swell in the spring or after trees have initiated dormancy in the fall. Crop response may be enhanced if applications are made when excessive soil moisture occurs, then a second spray should be applied like the first. This application will be made postemergence to the witchweed, preferably before bloom appears to avoid seed set. Corn should have a minimum height of 24 inches at the first application. After this application has been made, the fields should be inspected regularly for any breakthrough of the witchweed. If breakthrough occurs, then a second spray should be applied as the first. This application will be made postemergence to the witchweed, preferably before bloom or as soon as possible past the first appearance of witchweed bloom to avoid seed set.

**METHOD OF APPLICATION**

Galigan H₂O should be directed to the soil. Avoid direct spray or drift onto foliage, flowers, or green bark. Apply in 20 or more gallons of water per acre to provide uniform spray distribution and coverage to the soil surface. Use higher volumes to ensure adequate soil coverage in high density of emerged weeds or heavy trash. Thorough spray coverage is essential to maximize the effectiveness of Galigan H₂O and to obtain the best possible soil coverage in the first spray application. Apply during May-August in a minimum of 10 gallons of water per acre to emerged witchweed before bloom or as soon as possible after bloom appears to avoid seed set. Corn should have a minimum height of 24 inches at the first application. After this application has been made, the fields should be inspected regularly for any breakthrough of the witchweed. If breakthrough occurs, then a second spray should be applied like the first. This application will be made postemergence to the witchweed, preferably before bloom or as soon as possible past the first appearance of witchweed bloom to avoid seed set.

**FIELD MIXTURES FOR SELECTED FIELD-GROWN DECIDUOUS TREES**

In addition to the weeds controlled by Galigan H₂O used alone, tank mixes with other preemergence or postemergence herbicides registered for this use can provide a broader spectrum of weed control.

Galigan H₂O may be tank mixed with products containing the following active ingredients registered for use in deciduous plantings:

- Glyphosate
- Pendimethalin
- Sethoxydim
- Napropamide
- Proadimate
- Oxadiazin
- Pronamide

**Determine the additional weed species to be controlled and, based on label claims, select the product(s) which would give effective control of the targeted weed(s). When using tank mixes of two or more products, use conditions must be in accordance with the most restrictive of the label limitations and precautions of the mixing partners.**

**IMPORTANT:** Read and follow container labels of tank-mix partners and use as directed. Follow the most restrictive labeling.

### COTTON

**POST-DIRECTED SPRAY**

Galigan H₂O is a selective herbicide for use as a post-directed application for broadleaf weed control in cotton. Cotton leaves that are accidentally sprayed will exhibit necrotic spotting and may drop from the plant; therefore, care must be exercised to avoid spray contact with the cotton leaves. Crop response may be enhanced if applications are made when excessive soil moisture is present or if rainfall occurs following application. Cotton will outgrow this condition and continue to develop normally.

**DOSAGE**

Galigan H₂O is recommended as a post-directed application at 0.5 to 1 pint (0.25 to 0.5 lb. active) per acre. Optimum control is achieved when 1 pint of Galigan H₂O (0.5 lb. active) per acre is applied to weed seedlings not exceeding 4 true leaves. Effective control of succulent weed seedlings in the 2- to 3-leaf stage can usually be obtained when 0.5 pint of Galigan H₂O (0.25 lb. active) per acre* are applied. See MIXING DIRECTIONS for surfactant recommendation. Weeds should be in the seeding stage, young and actively growing. Do not count cotyledon leaves.

*Dosages listed are for broadcast application. For banded application, the amount of Galigan H₂O used per acre should be reduced according to the following formula:

\[
\text{Amount Needed per Acre} = \frac{\text{Band Width (in inches)} \times \text{Rate per Broadcast Acre}}{\text{Row Width (in inches)}}
\]
**WEEDS CONTROLLED POSTEMERGENCE**

When Galigan H₂O is applied as a post-directed application at the recommended weed stage and dosage in cotton, the following weeds are controlled:

- **Cocklebur, Common**
- **Croton, Trophic**
- **Groundcherry, Cutleaf**
- **Groundcherry, Wright**
- **Jimsonweed**
- **Lambquarters, Common**
- **Morning Glory, Annual (up to 6-leaf)**
- **Nightshade, American Black**
- **Nightshade, Black**

**MULTIPLE APPLICATIONS MAY BE REQUIRED FOR ACCEPTABLE CONTROL.**

**TIMING**

**SOUTHERN COTTON (ALABAMA, ARKANSAS, GEORGIA, LOUISIANA, MISSISSIPPI, MISSOURI, NEW MEXICO, NORTH CAROLINA, OKLAHOMA, SOUTH CAROLINA, TENNESSEE, TEXAS, AND VIRGINIA)**

Cotton plant height must be a minimum 6 inches or greater. Application to cotton plants less than 6 inches tall may result in severe crop injury and is not recommended. In cotton 6 to 8 inches tall, Galigan H₂O must be applied using rigid precision ground sprayer equipment. The use of spray shields is recommended to avoid spray contact with cotton foliage. Use branch lifters or shields if excessive spray contact on larger cotton plants (8 inches or greater) cannot be avoided by the directed spray.

**WESTERN COTTON (ARIZONA AND CALIFORNIA)**

Cotton plant height must be a minimum 6 inches or greater. Applications to cotton plants less than 6 inches tall may result in severe crop injury and is not recommended. In cotton 6 to 8 inches tall, Galigan H₂O must be applied using rigid precision ground sprayer equipment. The use of spray shields is recommended to avoid spray contact with cotton foliage. Use branch lifters or shields if excessive spray contact on larger cotton plants (8 inches or greater) cannot be avoided by the directed spray.

**TANK MIXES WITH GALIGAN H₂O**

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for tank mixtures, the most restrictive situations must apply.

**DOSEAGE**

For postemergence control of susceptible grassy and broadleaf weeds in cotton, a tank mixture of Galigan H₂O with either diuron or MSMA can be applied as a post-directed application. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

**COTTON**

**SOUTHERN AND WESTERN**

**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- **SOUTHERN COTTON:** Do not apply more than 1 pint (0.5 lb. active) per broadcast acre of Galigan H₂O per season as a result of single or multiple applications. Do not apply within 90 days of harvest. A 14-day interval from treatment to incorporation is specified.

- **WESTERN COTTON:** Do not apply more than 1 pint (0.5 lb. active) of Galigan H₂O per broadcast acre as a result of a single application. Do not apply within 75 days of harvest. A 14-day interval from treatment to incorporation is specified.

**COTTONWOOD**

**GENERAL INFORMATION**

Galigan H₂O is an effective herbicide for postemergence and preemergence control of certain broadleaf weeds in permanently established eucalyptus (E. viminalis, E. pulverulenta, E. camaldulensis) plantings.

In new plantings, Galigan H₂O should be applied immediately prior to or immediately following transplanting of dormant eucalyptus seedlings. In established plantings, Galigan H₂O may be applied postemergence (over-the-top) or be post-directed to the base of the eucalyptus tree. Applications must only be made prior to bud break to avoid possible phytotoxicity to the eucalyptus foliage. Applications made after bud break may result in injury to the eucalyptus plant and are not recommended.

**DOSEAGE**

Apply 2 to 3 pints (1.0 to 1.5 lb. active) of Galigan H₂O per broadcast acre for preemergence and postemergence weed control. The addition of 1 quart of an 80% active nonionic surfactant per 100 gallons of spray mix will assist in spray coverage and wetting of weeds for postemergence control.

**WEEDS CONTROLLED POSTEMERGENCE**

<table>
<thead>
<tr>
<th>CHEESEWEED (MALVA)</th>
<th>MINER’S LETTUCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILAREE, BROADLEAF</td>
<td>NETTLE, BURNING</td>
</tr>
<tr>
<td>FILAREE, REDSTEM</td>
<td>PIGWEED, REDROOT</td>
</tr>
<tr>
<td>FILAREE, WHITESTEM</td>
<td>REDMAIDS</td>
</tr>
<tr>
<td>GROUNDSEL, COMMON</td>
<td>SHEPHERDSPURSE</td>
</tr>
</tbody>
</table>

**WEEDS CONTROLLED PREEMERGENCE**

<table>
<thead>
<tr>
<th>BURCLOVER</th>
<th>LETTUCE, PRICKLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEESEWEED (MALVA)</td>
<td>PIGWEED, REDROOT</td>
</tr>
<tr>
<td>FIDDLENECK, COAST</td>
<td>PURSLEANE, COMMON</td>
</tr>
<tr>
<td>FILAREE, BROADLEAF</td>
<td>REDMAIDS</td>
</tr>
<tr>
<td>FILAREE, REDSTEM</td>
<td>ROCKET, LONDON</td>
</tr>
<tr>
<td>FILAREE, WHITESTEM</td>
<td>SHEPHERDSPURSE</td>
</tr>
<tr>
<td>GROUNDSEL, COMMON</td>
<td>SOWTHISTLE, ANNUAL</td>
</tr>
<tr>
<td>HENBIT</td>
<td>SPURGE, PROSTATE</td>
</tr>
<tr>
<td>KNOTWEED, PROSTATE</td>
<td>SPURGE, SPOTTED</td>
</tr>
</tbody>
</table>

**TOTAL AND METHOD OF APPLICATION**

For optimum weed control, Galigan H₂O should be applied prior to weed emergence. Postemergence applications should be applied to seedling weeds (up to the 6-leaf stage). Applications must be made prior to bud break of either transplants or established eucalyptus trees.

Galigan H₂O should be applied at 20 to 40 psi in a minimum of 20 gallons of water per acre depending upon density of emerged weeds. Spray volume should be increased as weed height and density increase. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

**EUCLYPYUS**

**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- Galigan H₂O should only be applied to dormant healthy eucalyptus stock.
- Do not apply more than 3 pints (1.5 lb. active) per treated acre as a result of single or more than 9 pints (4.5 lb. active) per acre per season as a result of multiple applications.
FALLOW BED
GROUND OR AERIAL APPLICATION OF GALIGAN H₂O ON FALLOW BEDS

GENERAL INFORMATION

Galigan H₂O is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with glyphosate for the control of winter annual broadleaf weeds to be planted to the crops listed below.

<table>
<thead>
<tr>
<th>DIRECT-SEEDED CROPS</th>
<th>GALIGAN H₂O USE RATE</th>
<th>MINIMUM TREATMENTS – PLANTING INTERVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>COTTON AND SOYBEANS</td>
<td>up to 0.5 pint/A</td>
<td>90 DAYS</td>
</tr>
<tr>
<td></td>
<td>up to 1 pint/A</td>
<td>90 DAYS</td>
</tr>
<tr>
<td>CEREAL GRAINS (includes barley, buckwheat, corn, proso millet, pearl millet, oats, popcorn, rice, rye, sorghum, triticale, wheat, wild rice)</td>
<td>60 DAYS</td>
<td>60 DAYS</td>
</tr>
<tr>
<td>OTHER LEGUME VEGETABLES</td>
<td>60 DAYS</td>
<td>60 DAYS</td>
</tr>
<tr>
<td>SUGARBEET</td>
<td>60 DAYS</td>
<td>90 DAYS</td>
</tr>
<tr>
<td>PEPPER</td>
<td>60 DAYS</td>
<td>120 DAYS</td>
</tr>
<tr>
<td>TOMATO</td>
<td>60 DAYS</td>
<td>120 DAYS</td>
</tr>
<tr>
<td>OTHER FRUITY VEGETABLES</td>
<td>60 DAYS</td>
<td>120 DAYS</td>
</tr>
<tr>
<td>CANTALOUPE</td>
<td>60 DAYS</td>
<td>90 DAYS</td>
</tr>
<tr>
<td>CABBAGE, CAULIFLOWER</td>
<td>60 DAYS</td>
<td>90 DAYS</td>
</tr>
<tr>
<td>LETTUCE</td>
<td>90 DAYS</td>
<td>120 DAYS</td>
</tr>
<tr>
<td>OTHER BRASSICA CROPS</td>
<td>120 DAYS</td>
<td>120 DAYS</td>
</tr>
<tr>
<td>OTHER LEAFY VEGETABLES (EXCEPT BRASSICA CROPS)</td>
<td>120 DAYS</td>
<td>120 DAYS</td>
</tr>
<tr>
<td>SQUASH</td>
<td>90 DAYS</td>
<td>120 DAYS</td>
</tr>
<tr>
<td>PEANUT</td>
<td>60 DAYS</td>
<td>60 DAYS</td>
</tr>
<tr>
<td>WATERMELON</td>
<td>60 DAYS</td>
<td>60 DAYS</td>
</tr>
<tr>
<td>OTHER BRASSICA CROPS</td>
<td>120 DAYS</td>
<td>120 DAYS</td>
</tr>
<tr>
<td>CABBAGE, CAULIFLOWER</td>
<td>90 DAYS</td>
<td>90 DAYS</td>
</tr>
<tr>
<td>OTHER BULB VEGETABLES</td>
<td>120 DAYS</td>
<td>120 DAYS</td>
</tr>
<tr>
<td>SUGARBEET</td>
<td>60 DAYS</td>
<td>90 DAYS</td>
</tr>
<tr>
<td>COTTON AND SOYBEANS</td>
<td>See specific labeling for FALLOW BEDS (COTTON, SOYBEANS) found elsewhere on this label.</td>
<td></td>
</tr>
<tr>
<td>COTTON AND SOYBEANS</td>
<td>10 MONTHS</td>
<td>10 MONTHS</td>
</tr>
</tbody>
</table>

SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mix, the most restrictive situations should apply.

DOUGAS

Galigan H₂O is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with glyphosate for the control of winter annual broadleaf weeds to be planted to the crops listed below.

<table>
<thead>
<tr>
<th>WEEDS CONTROLLED</th>
<th>GALIGAN H₂O USE ALONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEESEWEED (MALVA)</td>
<td>MUSTARD SPECIES</td>
</tr>
<tr>
<td>FIDDLENECK, COAST</td>
<td>NETTLE, BURNING</td>
</tr>
<tr>
<td>FILAREE, BROADLEAF</td>
<td>REDMOLDS</td>
</tr>
<tr>
<td>FILAREE, REDSTEM</td>
<td>ROCKET, LONDON</td>
</tr>
<tr>
<td>GROUNDSEL, COMMON</td>
<td>SHEPHERDSPURGE</td>
</tr>
<tr>
<td>HENBIT</td>
<td>SOWWHISTLE, ANNUAL</td>
</tr>
<tr>
<td>MINER’S LETTUCE</td>
<td></td>
</tr>
</tbody>
</table>

EXERCISE EXTREME CARE TO AVOID HERBICIDE CONTACT WITH ANY DESIRABLE DORMANT OR NON-DORMANT CROP, PLANT, TREE, OR VEGETATION AS SEVERE INJURY MAY RESULT.

Galigan H₂O may be applied at 0.5 to 1 pint (0.25 to 0.5 lb. active) per broadcast acre. The lower rate (0.5 pint per acre) should provide up to 4 weeks of preemergence control of susceptible weeds and provide postemergence control of susceptible weeds (up to 4-leaf stage). The higher rate (1 pint per acre) should provide preemergence control of susceptible weeds for up to 8 weeks and postemergence control of susceptible weeds (up to 6-leaf stage). Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks following application.

WEEDS CONTROLLED

Galigan H₂O herbicide should provide preemergence and postemergence* control of the following weeds when used at recommended dosages and weed stage.

| CHEESEWEED (MALVA) | MUSTARD SPECIES |
| FIDDLENECK, COAST | NETTLE, BURNING |
| FILAREE, BROADLEAF | REDMOLDS |
| FILAREE, REDSTEM | ROCKET, LONDON |
| GROUNDSEL, COMMON | SHEPHERDSPURGE |
| HENBIT | SOWWHISTLE, ANNUAL |
| MINER’S LETTUCE | |

*Thorough spray coverage is essential to maximize the postemergence activity of Galigan H₂O.

For postemergence control when applied by air, a tank mixture of Galigan H₂O with glyphosate is recommended.

Galigan H₂O is a contact herbicide, therefore, coverage is essential for acceptable postemergence control. If dense weed populations, oversized weed seedlings, volunteer grains, annual grasses, or unfavorable environmental conditions exist, a tank mixture of Galigan H₂O with glyphosate for postemergence control is recommended.

TANK MIXES WITH GALIGAN H₂O

IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mix, the most restrictive situations must apply.

DOUGAS

Galigan H₂O can be tank mixed with glyphosate to obtain postemergence control of annual grassy weeds, volunteer grains, and broadleaf weeds. Tank mix 0.5 to 1 pint (0.25 to 0.5 lb. active) of Galigan H₂O with labeled rates of glyphosate. Apply at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

METHOD OF APPLICATION

GROUND APPLICATION

Galigan H₂O should be applied in a minimum of 20 gallons of water per acre. The volume of water used should be increased as the weeds become taller and more dense. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

AERIAL APPLICATION

Galigan H₂O should be applied using swig jet or hollow cone nozzles and a spray pressure less than 40 psi to deliver a minimum spray volume of 10 gallons per acre (minimum 5 GPA for Galigan H₂O / glyphosate tank mix).

Applications should be made at a height of 6 to 10 feet above the soil surface. It is suggested that the nozzles on the spray booms should not be placed any closer to the wing or rotor tips than 3/4 of the span; this will minimize the formation of spray or wing tip vortice roll. Nozzles should be spaced and positioned to produce a uniform spray pattern and to minimize or eliminate the formation of droplets 100 microns or less in diameter.

IMPORTANT: Aerial applicators must be familiar with this label and follow the use precautions. Spraying Galigan H₂O in a manner other than as recommended is done at the user’s risk. Users are responsible for all loss or damage that results from such spraying. In addition, aerial applicators should follow all applicable state and local regulations and ordinances. In interpreting the label and local regulations, the most restrictive situations should apply to avoid drift hazards.

FALLOW BED

SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mix, the most restrictive situations must apply.

- Do not apply more than 1 pint (0.5 lb. active) of Galigan H₂O per acre per fallow season.

FALLOW BED (COTTON AND SOYBEANS)

GROUND OR AERIAL APPLICATION OF GALIGAN H₂O ON FALLOW BEDS TO BE PLANTED TO COTTON OR SOYBEANS

NOT FOR USE ON FALLOW BEDS TO BE PLANTED TO SOYBEANS IN CALIFORNIA

GENERAL INFORMATION

Galigan H₂O is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with glyphosate or parquat for the control of winter annual broadleaf weeds in fallow beds to be planted to cotton or soybeans. Do not apply Galigan H₂O within 7 days prior to planting. The fallow beds should be worked thoroughy to a depth of at least 2 inches prior to planting. It is important to thoroughly break the soil surface prior to planting. Weed control should not be expected following breaking of the soil surface.

EXERCISE EXTREME CARE TO AVOID HERBICIDE CONTACT WITH ANY DESIRABLE DORMANT OR NON-DORMANT CROP, PLANT, TREE, OR VEGETATION AS SEVERE INJURY MAY RESULT.

Galigan H₂O USED ALONE

DOUGAS

Galigan H₂O may be applied at 0.5 to 1 pint (0.25 to 0.5 lb. active) per broadcast acre. The lower rate (0.5 pint per acre) should provide up to 4 weeks of preemergence control of susceptible weeds and provide postemergence control of susceptible weeds (up to 4-leaf stage). The higher rate (1 pint per acre) should provide preemergence control of susceptible weeds for up to 8 weeks and postemergence control of susceptible weeds (up to 6-leaf stage). Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks following application.
WEEDS CONTROLLED
Galigan H₂O should provide preemergence and postemergence control of the following weeds when used at recommended dosages and weed stage.

<table>
<thead>
<tr>
<th>BUTTERCUP, SMALLFLOWER CHEESEWEED (MALVA) BUTTERCUP</th>
<th>MUSTARD SPECIES NETTLE, BURNING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EVENINGPRIMROSE, CUTLEAF</strong></td>
<td>OXALIS</td>
</tr>
<tr>
<td>FIDDLENECK, COAST</td>
<td>PIGWEED, REDROOT</td>
</tr>
<tr>
<td>FILAREE, BROADLEAF</td>
<td>PURSLANE, COMMON</td>
</tr>
<tr>
<td>FILAREE, REDSTEM</td>
<td>REDMALLOW</td>
</tr>
<tr>
<td>GERANIUM, CAROLINA</td>
<td>ROCKET, LONDON</td>
</tr>
<tr>
<td>GROUNDCHERRY, CUTLEAF</td>
<td>SHEPHERDSPURSE</td>
</tr>
<tr>
<td>GROUNDSEL, COMMON</td>
<td>SIDA, PRICKLY</td>
</tr>
<tr>
<td>HENBIT</td>
<td>SOWTHISTLE, ANNUAL</td>
</tr>
<tr>
<td>LADYSTHUMB</td>
<td>VELUTLEAF (WILD COTTON)</td>
</tr>
<tr>
<td>MINER’S LETTUCE</td>
<td></td>
</tr>
</tbody>
</table>

*Thorough spray coverage is essential to maximize the postemergence activity of Galigan H₂O. For postemergence control when applied by air, a tank mixture of Galigan H₂O with either glyphosate or paraquat is recommended.

**Requires maximum rate and/or multiple applications for effective control.

TANK MIXES WITH GALIGAN H₂O

IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mix, the most restrictive situations must apply.

**DO dosage**
Galigan H₂O can be tank mixed with either glyphosate or paraquat to obtain postemergence control of annual grassy weeds, volunteer grains, and broadleaf weeds. Tank mix 0.5 to 1 pint (0.25 to 0.5 lb. active) of Galigan H₂O with labeled rates of either glyphosate or paraquat. Apply at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

OUTSIDE OF CALIFORNIA: For enhanced contact activity (burndown/suppression) to either glyphosate or paraquat, add Galigan H₂O at a rate of 3.25 ounces (0.1 lb. active) per acre to labeled rates of either glyphosate or paraquat. Apply at the recommended rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

If a fallow bed treatment is applied thirty days or more prior to planting and at least three significant rainfalls (0.25 inch or greater) have occurred following application, cotton or soybeans can be planted directly into the state seeded. If these conditions cannot be met, soil incorporation is required as directed above.

METHOD OF APPLICATION
GROUND APPLICATION
Galigan H₂O should be applied in a minimum of 20 gallons of water per acre. The volume of water used should be increased as the weeds become taller and more dense. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

AERIAL APPLICATION
Galigan H₂O should be applied using swirl jet or hollow cone nozzles and a spray pressure less than 40 psi to deliver a minimum spray volume of 5 gallons per acre (in California, minimum 10 GPA). Applications should be made at a height of 6 to 10 feet above the soil surface. It is suggested that the nozzles on the spray boom should not be placed any closer to the wing or rotor tips than 3/4 of the span; this will minimize the formation of spray or wing tip vortex roll. Nozzles should be spaced and positioned to produce a uniform spray pattern and to minimize or eliminate the formation of droplets 100 microns or less in diameter.

AVOID DRIFT: When applying to fallow beds, extreme care must be exercised to prevent spray drift that could result in damage to other crops or desirable vegetation. Use the following guidelines when aerial applications are to be made:

1. Do not apply when the wind direction is not stable, when inversion conditions exist, or when wind velocity exceeds 10 mph.
2. When wind speeds are 5 mph or less, maintain a minimum downwind buffer zone of at least 1/2 mile from all crops and desirable vegetation, except for the following:
   - 150 feet from dormant treefruit, dormant vines and overwintering sugar beets.
   - 650 feet from garlic, jojoba, legumes, onions, pastures, small grains, seedling sugar beets, and non-targeted vegetable fallow beds.
3. When wind speeds are between 5 and 10 mph, downwind buffer zones in excess of those listed above are suggested.
4. For upwind and side borders, maintain a minimum buffer zone of 150 feet from any non-targeted vegetable fallow bed, crop, or desirable vegetation. This use of a drift control agent may be required by local regulations. However, the drift control agent may decrease the weed control activity.

FALLOW BED (COTTON, SOYBEANS)
Specific USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- Must read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- Do not apply more than 0.1 pint (0.05 lb. active) of Galigan H₂O per acre to fallow season.
- Do not apply Galigan H₂O within 7 days prior to planting of cotton.

FALLOW LAND

FOR USE ONLY IN IDAHO, OREGON, AND WASHINGTON

GENERAL INFORMATION
Galigan H₂O herbicide is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with glyphosate (Roundup) for the control of certain annual broadleaf weeds in a fallow land system. Galigan H₂O herbicide can be used as an effective tool to reduce weed growth prior to the establishment of a dry soil mulch. Use of this product is restricted to summer fallow land that will be planted back the following year to winter wheat, barley, or oats.

**Galigan H₂O HERBICIDE USED ALONE DOSAGE**
Galigan H₂O herbicide should be used at 0.25 to 1 pint (0.125 to 0.5 lb. active) per broadcast acre.

WEEDS CONTROLLED
Galigan H₂O herbicide will provide postemergence control and preemergence activity of the following broadleaf weeds when used at recommended dosages.

- FIDDLENECK, COAST
- HENBIT
- LETTUCE, PRICKLY (CHINA LETTUCE)
- MUSTARD, BLUE (PURPLE MUSTARD)
- MUSTARD, TUMBLE (JIMM HILL MUSTARD)

TIMING AND METHOD OF APPLICATION

The most effective postemergence weed control is achieved when Galigan H₂O herbicide is applied to seedling weeds (less than 4 inches in height). Seedling weeds are controlled as they come in contact with the soil-applied herbicide during emergence.

Galigan H₂O herbicide should be applied in a minimum of 20 gallons of water per acre using ground equipment or 10 gallons of water per acre by air depending upon density of emerged weeds. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated before each use.

TANK MIXES WITH GALIGAN H₂O HERBICIDE

For postemergence control of annual grassy weeds, Galigan H₂O herbicide can be tank-mixed with glyphosate (Roundup). Tank mix 0.25 to 1 pint (0.125 to 0.5 lb. active) of Galigan H₂O with 0.75 to 1 pint (0.38 to 0.5 lb. active) of glyphosate (Roundup) for each acre treated. Refer to the FALLOW LAND LOW AND REDUCED TILLAGE SYSTEM section on the glyphosate (Roundup) label for specific use directions and restrictions. Fill the spray tank at least one-third full of clean water and add the recommended amounts of Galigan H₂O herbicide and glyphosate (Roundup) while the pump and agitator are running. Complete filling of the spray tank with water. Add 1 quart of a comparable 80% active nonionic surfactant, cleared for use on growing crops, per 100 gallons of spray. Maintain agitation until spraying is complete.

FALLOW LAND

SPECIFIC USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

**GARBANZO BEANS (CHICKPEA)** (CALIFORNIA AND ARIZONA ONLY)

GENERAL INFORMATION
Galigan H₂O is effective as a preemergence herbicide when used alone for the control of certain annual broadleaf weeds in garbanzo beans. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Seeding weeds are controlled as they come in contact with soil-applied herbicide during emergence. Timely cultivations will usually assist in weed control.

Garbanzo beans are tolerant to preemergence applications of Galigan H₂O, however, under certain conditions, Galigan H₂O can cause severe but temporary crop injury. Heavy splashing rain shortly after crop emergence or wet soil conditions during early growth stages can produce leaf cupping, crinkling, stunting, or defoliation of the garbanzo seedlings. When injury occurs, it is often limited to the first few leaves that develop shortly after crop plants emerge from the soil. Delays in crop development and/or maturity may result. Garbanzo beans do not recover from this injury with little to no impact on yield.

**Galigan H₂O USED ALONE DOSAGE**
Galigan H₂O is recommended for preemergence control of susceptible winter annual broadleaf weeds at 0.5 pint (0.25 lb. active) per broadcast acre.

WEEDS CONTROLLED PREEMEREGENCE
Galigan H₂O used alone at recommended dosages provides preemergence control of the following broadleaf weeds:

- GROUNDSEL, COMMON
- ROCKET, LONDON
- MALLOW, LITTLE (MALVA)
- SHEPHERDSPURSE

TIMING AND METHOD OF APPLICATION

As a preemergence application, apply in a minimum of 20 gallons of water per acre. Use conventional ground spray equipment to make a single broadcast application after planting but prior to weed and crop emergence with flat fan or hollow cone nozzles. Spray equipment should be calibrated carefully before each use.

**GARBANZO BEANS (CHICKPEA)**

SPECIFIC USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- Do not apply more than 0.5 pint (0.25 lb. active) per broadcast acre of Galigan H₂O in a single application.
- Do not feed beans, vines, or hay.
GARLIC

GENERAL INFORMATION

Galigan H₂O is a selective herbicide for postemergence application to direct-seeded and transplanted garlic for early postemergence control of certain annual broadleaf and grass weeds. Initial spray application should be made only when the garlic have reached the development stage specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label. On garlic transplants, spray as soon after transplanting as practical. Galigan H₂O herbicide can cause necrotic lesions, twisting, pitting, or stunting of the garlic plants. Injury will be more severe if applied to already foliated or during cool, wet weather. Applications are made prior to the development stage of the garlic plants as specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label.

DOSAGE

SEEDED GARLIC

NORTHEASTERN STATES (CONNECTICUT, MAINE, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, RHODE ISLAND, AND VERMONT)

Galigan H₂O is recommended for postemergence control at 1 to 2 fluid ounces (0.03 to 0.06 lb. active) per acre when applied postemergence to seeded garlic with at least three (3) true leaves. Multiple treatments at the aforementioned rate may be applied. Do not apply more than 1 pint (0.5 lb. active) per broadcast acre of Galigan H₂O as a result of multiple applications in one season.

WESTERN STATES (ARIZONA, COLORADO, IDAHO, NEVADA, NEW MEXICO, OREGON, TEXAS, UTAH, AND WASHINGTON)

Galigan H₂O is recommended for postemergence control at 0.25 to 0.5 pint (0.12 to 0.25 lb. active) per acre in a minimum of 40 gallons of water per acre when applied postemergence to garlic with at least two (2) true leaves. Multiple treatments at the aforementioned rates may be applied. Do not apply more than 1.0 pint (0.5 lb. active) per broadcast acre of Galigan H₂O as a result of multiple applications in one season.

CALIFORNIA ONLY

GENERAL INFORMATION

Galigan H₂O is a selective herbicide for preemergence use (by air, ground, or sprinkler application), post-direct use when applied by ground equipment, or postemergence (over-the-top) application when applied via sprinkler irrigation for control of certain broadleaf and grass weeds in garlic in California.

Chemigation: If Galigan H₂O is to be applied via sprinkler irrigation, follow the method of application directions listed for sprinkler chemigation. For application using sprinkler (solid set or portable lateral) irrigation systems, apply specified dosage of Galigan H₂O per acre as described below. Follow all directions given in the APPLICATION THROUGH IRRIGATION SYSTEMS – CHEMIGATION section of this label when making applications using sprinkler irrigation systems.

Preemergence Garlic Applications in California

Apply Galigan H₂O at a rate of 0.25 to 0.5 pint (0.12 to 0.25 lb. active) per broadcast acre as a preemergence application to garlic. Methods of application may be ground, sprinkler, or aerial.

Ground Application: If applied using ground application equipment, Galigan H₂O should be applied in a minimum of 20 gallons per acre. Use conventional ground spray equipment with flat nozzles at 20 to 40 psi.

Sprinkler Application: Apply Galigan H₂O at the recommended broadcast application rate. Sufficient sprinkler irrigation water should be applied to insure water penetration to a depth of two inches.

Aerial Application: If applied using aerial application, Galigan H₂O should be applied using swirl jet or hollow cone nozzles and a spray pressure less than 40 psi to deliver a minimum spray volume of 10 gallons per acre. Applications should be made at a height of 6 to 10 feet above the soil surface. It is suggested that the nozzles on the spray boom should not be placed any closer to the wing or rotor tips than 3/4 of the span; this will minimize the formation of spray or wing tip vortex roll. Nozzles should be spaced and positioned to produce a uniform spray pattern and to minimize or eliminate the formation of droplets 100 microns or less in diameter.

Garlic Response to Preemergence Applications with Galigan H₂O: A chlorotic band around the roots of the garlic may be observed after the first irrigation (or rainfall) following preemergence applications. Symptoms may be more severe if garlic emerges under cool, wet, overcast, or foggy weather. This condition is temporary and should not affect the vigor or development of the garlic plant.

Postemergence (and Directed) Garlic Applications in California

Apply Galigan H₂O at rates up to 0.5 pint (0.25 lb. active) per broadcast acre as a postemergence (or directed) application in garlic. The garlic must be at least 12 inches in height at application. Weeds should be in the seedling stage, young, and actively growing. Methods of application may be post-directed or by sprinkler chemigation.

Post-Directed Application: For banded application, the amount of Galigan H₂O used per acre should be reduced according to the following formula:

\[
\text{Rate per Broadcast Acre} = \frac{\text{Amount Needed per Acre}}{\text{Row Width (in inches)}}
\]

Accurate, uniform placement of Galigan H₂O spray is essential for effective weed control and to minimize garlic injury. As a directed, postemergence application, Galigan H₂O should be applied using a low-pressure sprayer using a minimum of 20 gallons of spray on a broadcast aerial basis. Apply Galigan H₂O as a directed treatment to the soil area at the base of the plants and to the adjacent bed top and furrow areas. Nozzles should be adjusted to cover the weed foliage with minimal contact to the garlic plant. Reduce tractor speed and smooth furrows to minimize excessive bouncing of the spray boom.

Sprinkler Chemigation: Apply Galigan H₂O at the recommended broadcast application rate. Sufficient sprinkler irrigation water should be applied to insure water penetration to a depth of two inches.

Garlic Response to Postemergence Applications with Galigan H₂O: Galigan H₂O may cause chlorotic leaf lesions, twisting, or stunting of the garlic plants. Symptoms will be more severe if applications are made during cool, wet, overcast, or foggy weather. Garlic will outgrow these conditions and continue to develop normally.

Cultural Considerations for use in California

On mineral soils, in order to provide maximum preemergence activity, the soil surface should be smooth and free of excessive trash (clippings, dead weeds, etc.) California practices that result in redistribution or disturbance of the soil surface after spraying or that mix untreated soil in treated areas will reduce the effectiveness of the treatment. The best results from Galigan H₂O herbicide are from applications on established beds that are left undisturbed during the time period for which weed control is desired.

ALL OTHER STATES

Galigan H₂O herbicide is recommended for postemergence control at 0.25 pint (0.12 lb. active) per acre prior to 2 true leaves. Multiple treatments at the aforementioned rates may be applied. Do not apply more than 1 pint (0.5 lb. active) per broadcast acre of Galigan H₂O herbicide as a result of multiple applications in one season.

TRANSPLANTED GARLIC

Transplanted garlic is most tolerant of a postemergence application immediately after transplanting. For all states except the Northeastern states listed under the DOSAGE – SEEDED GARLIC section, an application of up to 1 pint (0.5 lb. active) per acre within two days after transplanting may be made. If less than 1.0 pint per acre are applied, a second application can be made two weeks or more after transplanting. Do not exceed the maximum use rate of 1 pint (0.5 lb. active) per broadcast acre of Galigan H₂O as a result of multiple applications in one season.

For transplanted garlic in the Northeastern states, apply the same rates listed in the DOSAGE SEEDED GARLIC section within two days after transplanting.

Dosages listed are for broadcast application. For banded application, the amount of Galigan H₂O used per acre should be reduced according to the following formula:

\[
\text{Rate per Broadcast Acre} = \frac{\text{Amount Needed per Acre}}{\text{Row Width (in inches)}}
\]

WEEDS CONTROLLED

Galigan H₂O will provide postemergence control of the following weeds when applied at the recommended dosage and leaf stage (2 to 4 leaves).

CORYDALIS, RED PIGWEED, PROSTRATE SOWTHISTLE, ANNUAL MALLOW, LITTLE (MALVA) MALLOW, LITTLE ALKALI MALLOW, LITTLE, MALVA NIGHTSHADE, BLACK *PIGWEED, PROSTATE *PIGWEED, REDROOT

*Specific weeds controlled at rates recommended for use in Northeastern States (see DOSAGE section).

TIMING AND METHOD OF APPLICATION

For best postemergence control of susceptible weeds, apply when the weeds are in the 2- to 4-leaf stage. Application of Galigan H₂O after the weeds exceed the maximum leaf stage may result in reduced weed control. More than one postemergence application may be necessary to control prevalent weed problems. Galigan H₂O should be thoroughly mixed with clean water and applied in a minimum of 40 gallons of water per acre. Use conventional ground spray equipment with flat fan spray nozzles at 20 to 40 psi. Accurately calibrate spray equipment prior to each use. Avoid drift to all other crops and non-target areas. Thoroughly flush the spray equipment (tank, hose, pump, boom) with water before and after each use. Residual Galigan H₂O remaining in spray equipment may damage other crops.

GARLIC

SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

• Do not apply Galigan H₂O preemergence to direct-seeded garlic except California.

• Do not apply Galigan H₂O before April 1.

• Do not apply Galigan H₂O after October 1.

• Do not apply Galigan H₂O to garlic grown for seed.

• Do not apply Galigan H₂O to garlic grown for seed.

• Do not apply Galigan H₂O to soil that has been plowed with glyphosate.

• Do not apply Galigan H₂O to soil that has been plowed with glyphosate.

• Do not apply Galigan H₂O with or near actively growing clovers, alfalfa, or other legumes.

GUAVA

(HAWAII ONLY)

GENERAL INFORMATION

Galigan H₂O is effective as a preemergence herbicide when used alone for the control of certain annual broadleaf weeds in bearing and non-bearing guava plantings.

For postemergence control of certain grassy and broadleaf weeds, a tank mixture of either parquat or glyphosate with Galigan H₂O can be applied to seedling weeds. Check individual labels to determine suitability and use rates for crop.

Galigan H₂O USED ALONE

DOSAGE

Galigan H₂O is recommended for postemergence control of susceptible weeds at 1 to 4 pints (0.5 to 2.0 lbs. active) per broadcast acre.

For preemergence control of susceptible weeds, use 2 to 4 pints (1.25 to 2.0 lbs. active) of Galigan H₂O per broadcast acre.
WEEDS CONTROLLED POSTEMERGENCE
Apply 1 to 4 pints (0.5 to 2.0 lbs. active) of Galigan H₂O per broadcast acre. Applications to weeds beyond the 4-leaf stage may result in partial control.

PURSLANE, COMMON SPURGE, GARDEN

WEEDS CONTROLLED PREEMERGENCE
Apply 2.5 to 4 pints (1.25 to 2.0 lbs. active) of Galigan H₂O per broadcast acre.

AGERATUM PURSLANE, COMMON BUTTONWEED SPURGE, GARDEN CROTALARIA

TIMING AND METHOD OF APPLICATION
Treatments should be applied only to healthy guava trees. Care must be taken to prevent direct spray or drift from contacting green stems, fruit, or foliage as injury may result. Applications should be made only after new foliage has hardened off or injury may result.

As a preemergence or postemergence treatment to weeds, apply in a minimum of 15 gallons of water per acre. Use higher volumes to assure adequate coverage in high densities of emerged weeds or heavy trash. Galigan H₂O should be directed to the soil and the base of the tree. Use of a low-pressure sprayer equipped with a breakaway boom and flat fan or off-center (OC) nozzles is recommended. An off-center nozzle positioned at the end of the boom may be desired. Spray shields are suggested for use in young trees.

TANK MIXES WITH GALIGAN H₂O

IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

DOSEAGE
For postemergence control of susceptible grassy and broadleaf weeds in guava plantings, a tank mixture of Galigan H₂O with either paraquat or glyphosate can be used. Apply at recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

WEEDS CONTROLLED POSTEMERGENCE
In addition to the weeds controlled by Galigan H₂O used alone, control of susceptible weeds listed in the respective labels for the following products is also obtained:

Paraquat Glyphosate

GUAVA

SPECIFIC USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

• Do not apply more than 4 pints (2.0 lbs. active) per broadcast acre of Galigan H₂O in a single application or more than 8 pints (4.0 lbs. active) per season.

• Do not apply Galigan H₂O within 1 day of harvest.

• Direct spray toward the base of the trees. Avoid direct plant contact.

• Galigan H₂O or any of the combinations recommended on this label should be applied only to healthy growing trees.

• Galigan H₂O applications should be made only after new foliage has hardened off.

HORSERADISH

GENERAL INFORMATION
Galigan H₂O is a selective herbicide recommended for preemergence control of certain broadleaf weeds. Applications must be made after the horseradish roots have been planted and prior to plant emergence. (Emerged plants that receive direct or indirect (drift) spray contact will be injured.) It may be desirable to cultivate immediately prior to application to remove germinated weeds. Do not use Galigan H₂O on horseradish plantings that are weak or under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides, drought, or excessive moisture.

DOSEAGE
Apply Galigan H₂O at a rate of 1 pint (0.5 lb. active) per broadcast acre as a preemergence application to horseradish.

WEEDS CONTROLLED
Galigan H₂O will provide preemergence control of the following weeds when used at the recommended dosage:

LAMBSQUARTERS, COMMON SHEPHERDSPURSE
PIGWEED, REDROOT PURSLANE, COMMON

TIMING AND METHOD OF APPLICATION
Galigan H₂O should be thoroughly mixed with clean water at recommended concentrations and applied in a minimum of 20 gallons of water per acre. Use conventional ground spray equipment with flat fan nozzles at 20 to 40 psi. Accurately calibrate spray equipment prior to each use.

HORSERADISH

SPECIFIC USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

• Do not apply more than 3 pints (1.5 lbs. active) per broadcast acre in a single application nor more than 3 pints (1.5 lbs. active) per acre per year.

MINT (SPEARMINT, PEPPERMINT)
(CALIFORNIA, IDAHO, MONTANA, NEVADA, OREGON, SOUTH DAKOTA, UTAH, AND WASHINGTON ONLY)

GENERAL INFORMATION
Galigan H₂O is a selective herbicide for the control of certain annual grasses and broadleaf weeds in spearmint and peppermint grown in California, Idaho, Montana, Oregon, South Dakota, Utah, and Washington. Applications should only be made to spearmint and peppermint during the dormant season.

METHOD OF APPLICATION
Application must be made prior to new spring growth or severe crop injury may result. Galigan H₂O should be thoroughly mixed with clean water at recommended concentration and applied at 20 to 40 psi in 20 to 40 gallons of water per acre.

WEEDS CONTROLLED
When Galigan H₂O is applied as a dormant application at recommended dosages in spearmint and peppermint, the following annual weeds are controlled:

BEDDREW, CATCHWEED *OATS, WILD
*BLUEGRASS, ANNUAL *ORACH, RED
*FURFUR COLDWEED PEPPERWEED, YELLOWFLOWER
GROUNDSEL, COMMON PIGWEED, REDROOT
LAMBSQUARTERS, COMMON *RYEGRASS, ITALIAN
LETTUCE, PRICKLY (CHINA LETTUCE) SHEPHERDSPURSE
MUSTARD, BLUE (PURPLE MUSTARD) SOWTHISTLE, ANNUAL
MUSTARD TUMBLE TANSY MUSTARD
(JIM HILL MUSTARD) THISTLE, RUSSIAN
NIGHTSHADE, HAIRY

*Control of annual grasses is best obtained when Galigan H₂O is applied prior to emergence. Postemergence control of winter annual grasses is generally unsatisfactory if applications are made after the 1- to 2-leaf stage.

WESTERN OREGON

PEPPERMINT (WILLAMETTE VALLEY)
Apply 1 to 1.5 pints (0.5 to 0.75 lbs. active) of Galigan H₂O from November to February to dormant peppermint only. Treatments in January or February generally provide better residual preemergence control of annual broadleaf weeds. Full season weed control should not be expected from this treatment. Make only application per season using this regime. Application may be made in a minimum of 20 gallons of water per acre.

DO NOT APPLY GALIGAN H₂O IN THE WILLAMETTE VALLEY TO MINT THAT HAS BEEN PLOWED.

DOSEAGE
Galigan H₂O is recommended for postemergence and preemergence control of susceptible seedling weeds (up to 12 inches in height) at 3 pints (1.5 lbs. active) per broadcast acre. For optimum residual control, apply during the fall or winter. For early postemergence control of susceptible seedling weeds (less than 8 inches in height), apply Galigan H₂O at a rate of 2 pints (1.0 lbs. active) per broadcast acre.

WEEDS CONTROLLED POSTEMERGENCE
FIDDLENECK, COAST MINER’S LETTUCE
**FILAREE, BROADLEAF NETTLE, BURNING
**FILAREE, REDSTEM *PINEWEED, REDROOT
**FILAREE, WHITSTEM REDMAIDS
GROUNDSEL, COMMON SHERPERSPURSE
HENBIT SOWTHISTLE, ANNUAL
MALLOW, LITTLE (MALVA, CHEESEWEED) TANSY MUSTARD
*Highest rate may be required for acceptable postemergence control.

**Galigan H₂O at the 3 pint rate (1.5 lbs. active) will provide control of filaree not exceeding the 4-inch stage.

Applications to filaree beyond the 4-inch stage may result in partial control.

TIMING AND METHOD OF APPLICATION
Apply the first application of Galigan H₂O after jojoba plants have grown to a minimum 6-inch height or greater. Additional applications should be applied as needed for post and preemergence weed control. Weed height should not exceed 12 inches or unsatisfactory weed control may result.

Galigan H₂O should be applied in a minimum spray volume of 40 gallons of water per acre depending upon density of emerged weeds. Spray volume should be increased as weed height and density increase. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

JOJOBA

SPECIFIC USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

• Avoid direct spray or drift contact of Galigan H₂O with jojoba flowers or buds as severe injury may result.

• Do not apply more than 3 pints (1.5 lbs. active) per broadcast acre in a single application nor more than 3 pints (1.5 lbs. active) per acre per year.
OREGON AND WASHINGTON (EAST OF CASCADES), CALIFORNIA, MONTANA, IDAHO, NEVADA, SOUTH DAKOTA, AND UTAH

SPEARMINT AND PEPPERMINT
Apply 2 to 3 pints (1 to 1.5 lbs. active) of Galigan H₂O in a minimum of 20 gallons of water per acre from December through March to dormant mint only. Later winter applications will provide maximum activity on summer weeds. Summer grass control may be inconsistent. For best results, fall-plowed fields should be harrowed to provide a smooth surface prior to application. Plowed fields should not be harrowed after Galigan H₂O has been applied. Soil disturbance will decrease the herbicidal effectiveness. In furrow-irrigated fields, corrugating must be done prior to application. Corrugating after application can cover treated rows with untreated soil resulting in poor weed control.

MINT (SPEARMINT AND PEPPERMINT)
SPECIFIC USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.
• Do not apply more than one application of Galigan H₂O per season.
• Apply Galigan H₂O only to healthy spearmint and peppermint. Do not apply to spearmint or peppermint that has been weakened by disease, drought, flooding, excessive fertilizer, soil salts, previously applied pesticides, nematodes, soil insects, or winter injury as severe injury may result.

MINT (SPEARMINT, PEPPERMINT)
GROWN ON MUCK SOILS ONLY IN INDIANA, MICHIGAN, MONTANA, NORTH DAKOTA, SOUTH DAKOTA, AND WISCONSIN
GENERAL INFORMATION
Galigan H₂O is a selective herbicide that can be used for the control of certain annual broadleaf weeds in dormant spearmint and peppermint. Applications should be made prior to the emergence of spearmint and peppermint that is grown on muck soils. Applications made after the spearmint and peppermint emerge will result in severe injury. Applications to first-year spearmint and peppermint should be made within four (4) days of planting (sprigging) to prevent excessive injury.

WEEDS CONTROLLED POSTEMERGENCE AND PREEMERGENCE
When Galigan H₂O is applied as recommended dosages in spearmint and peppermint, the following weeds are controlled:

<table>
<thead>
<tr>
<th>Weed</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PURSLANE, COMMON</td>
<td></td>
</tr>
</tbody>
</table>

**DOSAGE**
Galigan H₂O should be applied at a rate of 2 to 3 pints (1.0 to 1.5 lbs. active) per acre. When used postemergence (to the weeds) add an 80% active nonionic surfactant at the rate of one quart per 100 gallons of spray solution. Applications should be made before the weeds exceed four inches. It is important that applications of Galigan H₂O herbicide be made prior to the emergence of the spearmint and peppermint. Galigan H₂O herbicide should be thoroughly mixed with clean water at recommended concentrations and applied in 20 to 40 gallons of water per acre. Apply to 20 to 40 psi.

**MINT (SPEARMINT, PEPPERMINT)**
GROWN ON MUCK SOILS ONLY IN INDIANA, MICHIGAN, MONTANA, NORTH DAKOTA, SOUTH DAKOTA, AND WISCONSIN
SPECIFIC USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.
• Apply Galigan H₂O only to spearmint and peppermint grown on muck soils (muck soils should have an organic matter of 20% or greater).
• Always apply Galigan H₂O to healthy spearmint and peppermint. Do not apply Galigan H₂O to spearmint or peppermint that has been weakened by disease, nematodes, soil insects, or winter injury, as severe injury may result.
• Do not apply Galigan H₂O to spearmint or peppermint that has emerged.
• Applications of Galigan H₂O to first-year spearmint or peppermint should be made within four (4) days of planting (sprigging).
• The use of any treated plants for feed or forage and the feeding or grazing of any treated area is prohibited.
• Do not make more than one application per season.

**NON-CROP USE**
NON-FOOD PRODUCING AND NON-CULTIVATED AGRICULTURAL OR NON-AGRICULTURAL AREAS (SUCH AS HIGHWAY AND UTILITY RIGHTS-OF-WAY, INDUSTRIAL SITES, TANK FARMS, STORAGE AREAS, AIRPORTS, FENCE ROWS, AND FARMSTEADS, ETC.)

**GENERAL INFORMATION**
Galigan H₂O is recommended for postemergence and preemergence control of certain broadleaf weeds in non-crop areas.

**WEEDS CONTROLLED POSTEMERGENCE** (weeds up to 4 inches tall)
Apply 1 to 4 pints (0.5 to 2.0 lbs. active) of Galigan H₂O per broadcast acre. The lower rate in the rate range is recommended for control of susceptible weeds in the early postemergence stage, less than 4 inches in height. The higher rate (2.0 lbs. active) should be used for weeds up to 12 inches in height. Applications to weeds beyond the 4-inch stage may result in partial control.

<table>
<thead>
<tr>
<th>Weed</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEESEWEED (MALVA)</td>
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</tr>
<tr>
<td>FIDDLENECK, COAST</td>
<td></td>
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<tr>
<td>FILAREE, BROADLEAF</td>
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<td>FILAREE, REDSTEM</td>
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<tr>
<td>GROUNDSEL, COMMON</td>
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<tr>
<td>HENBIT</td>
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<tr>
<td>MINER’S LETTUCE</td>
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</tbody>
</table>

**WEEDS CONTROLLED PREEMERGENCE**
Apply 2.5 to 4 pints (1.25 to 2.0 lbs. active) per broadcast acre.

<table>
<thead>
<tr>
<th>Weed</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BURCLOVER</td>
<td></td>
</tr>
<tr>
<td>CHEESEWEED (MALVA)</td>
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</tr>
<tr>
<td>FIDDLENECK, COAST</td>
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<tr>
<td>FILAREE, BROADLEAF</td>
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<tr>
<td>FILAREE, REDSTEM</td>
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<tr>
<td>PIGWEED, REDROOT</td>
<td></td>
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<tr>
<td>REDMAIDS</td>
<td></td>
</tr>
<tr>
<td>SHEPHERDSPURSE</td>
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</tbody>
</table>

**TIMING AND METHOD OF APPLICATION**
Galigan H₂O should be applied in a minimum of 40 gallons of water per acre. Best preemergence results are achieved when sprays are applied to a relatively weed-free soil surface. The volume of water used should be increased as the weeds become taller and more dense. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

**TANK MIXES WITH GALIGAN H₂O**
IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

**DOSEAGE**
For preemergence control of susceptible grassy and broadleaf weeds, a tank mixture of Galigan H₂O with diuron or simazine can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels. For postemergence control of susceptible grass and broadleaf weeds, a tank mixture with paraquat or glyphosate with Galigan H₂O can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

**SPECIFIC USE RESTRICTIONS**
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.
• Do not feed or allow animals to graze on any treated areas with Galigan H₂O herbicide.
• Do not apply more than 4 pints (2.0 lbs. active) in a single application.

**ONIONS**
**GENERAL INFORMATION**
Galigan H₂O is a selective herbicide for postemergence application to direct-seeded and transplanted onions for early postemergence control of certain annual broadleaf and grass weeds. Initial spray application should be made only when the onions have reached the development stage specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label. On onion transplants, spray as soon before or after transplanting as practical. Galigan H₂O can cause necrotic lesions, twisting, pigtailing, or stunting of the onion plants. Injury will be more severe if applications are made immediately following or during cool, wet weather and/or if applications are made prior to the development stage of the onion plants as specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of this label.

**DOSEAGE**
SEEDED ONIONS
NORTHEASTERN STATES (CONNECTICUT, MAINE, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, RHODE ISLAND, AND VERMONT)
Galigan H₂O is recommended for postemergence control at 0.25 pint to 0.5 pint (0.12 to 0.25 lb. active) per acre when applied postemergence to seedbed onions that have at least two (2) true leaves. Multiple treatments at the aforementioned rate may be applied. Do not apply more than 1 pint (0.5 lb. active) per broadcast acre of Galigan H₂O as a result of multiple applications in one season. Applications may be made in a minimum of 40 gallons of water per acre. The preharvest interval is 45 days.

WESTERN STATES (ARIZONA, CALIFORNIA, COLORADO, IDAHO, NEVADA, NEW MEXICO, OREGON, TEXAS, UTAH, AND WASHINGTON)
Galigan H₂O is recommended for postemergence control at 0.25 pint to 0.5 pint (0.12 to 0.25 lb. active) per acre when applied postemergence to onions that have at least two (2) true leaves. Multiple treatments at the aforementioned rates may be applied. Do not apply more than 1 pint (0.5 lb. active) per broadcast acre of Galigan H₂O as a result of multiple applications in one season. Applications may be made in a minimum of 40 gallons of water per acre. The preharvest interval is 45 days.

Sprinkler Chemigation: For application using sprinkler irrigation (solid set or portable lateral systems), apply specified dosage of Galigan H₂O per acre as described in this section. Follow all directions given in the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS – CHEMIGATION when making applications using sprinkler irrigation systems.

**ALL OTHER STATES**
Galigan H₂O is recommended for postemergence control at 0.25 pint to 0.5 pint (0.12 to 0.25 lb. active) per acre when applied postemergence to onions that have at least two (2) true leaves. Multiple treatments at the aforementioned rates may be applied. Do not apply more than 1 pint (0.5 lb. active) per broadcast acre of Galigan H₂O herbicide as a result of multiple applications in one season. Applications may be made in a minimum of 40 gallons of water per acre. The preharvest interval is 45 days.

**TRANPLANTED ONIONS**
POST-TRANSPLANT: Transplanted onions are most tolerant of a postemergence application immediately after transplanting.

For all states except the Northeastern states listed under the DOSAGE – SEEDED ONIONS section above, an application of up to 1 pint (0.5 lb. active) per acre within two days after transplanting may be made. If less than 1 pint per acre is applied, a second application can be made two weeks or more after transplanting. Do not exceed the maximum use rate of 1 pint (0.5 lb. active) per broadcast acre of Galigan H₂O as a result of multiple applications in one season. Applications may be made in a minimum of 40 gallons of water per acre.
WEEEDS CONTROLLED
Galigan H₂O will provide postemergence control of the following weeds when applied at the recommended dosage and leaf stage (2 to 4 leaves):

- **CANARYGRASS (ANNUAL)**
- **EVENINGPRIMROSE, CUTLEAF**
- **GROUNDSEL, COMMON**
- **MALLOW, LITTLE (MALVA)**
- **PIGWEED, PROSTRATE**
- **PIGWEED, REDROOT**

**COMMENTS**: Postemergence applications may be repeated at 4 month intervals. Galigan H₂O is recommended for use as a post-directed application for broadleaf weed control in papaya. Galigan H₂O may be used as a post-directed application for broadleaf weed control in papaya. Papaya should be thoroughly mixed with clean water at recommended concentrations and applied in a minimum of 40 gallons of water per acre. Use conventional ground spray equipment with flat fan spray nozzles at 20 to 40 psi. Accurately calibrate spray equipment prior to each use. Do not apply more than 1 pint (0.5 lb. active) per broadcast acre of Galigan H₂O during one use season.

**GENERAL INFORMATION**
Galigan H₂O may be used as a post-directed application for onions grown for seed for early postemergence control of certain annual broadleaf and grassy weeds. Initial spray application should be made only when the onions have reached the development stage specified in the DOSAGE section and the SPECIFIC USE RESTRICTIONS section of the label. Galigan H₂O will provide postemergence control of the following weeds when applied at the recommended dosage and leaf stage (2 to 4 leaves):

- **CUTLEAF**
- **GROUNDSEL, COMMON**
- **MALLOW, LITTLE (MALVA)**
- **PIGWEED, PROSTRATE**
- **PIGWEED, REDROOT**

**COMMENTS**: Repeat applications may be necessary to control subsequent weed flushes.

**TIMING AND METHOD OF APPLICATION**
For best postemergence control of susceptible weeds, apply when the weeds are in the 2- to 4-leaf stage. Application of Galigan H₂O after the weeds exceed the maximum leaf stage may result in reduced weed control. Applications made after the maximum leaf stage may result in reduced weed control. More than one postemergence application may be necessary to control subsequent weed flushes.

**ONIONS GROWN FOR SEED SPECIFIC USE RESTRICTIONS**
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- In all states, do not start spraying until the onions have reached the minimum leaf stage specified in the DOSAGE section of this label. Applications made prior to recommended onion development stage may result in serious injury and are not recommended.
- Do not apply more than a total of 1 pint (0.5 lb. active) per acre of Galigan H₂O during one use season.
- Do not apply within 60 days of harvest.
- Do not mix Galigan H₂O with oils, surfactants, liquid fertilizers, or other pesticides except as specified on the Galigan H₂O label or other supplemental labeling.
- Do not apply to onion plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects, nematodes, or diseases.
METHOD OF APPLICATION
Galigan H₂O should be thoroughly mixed with clean water at recommended concentrations and applied in a minimum of 15 gallons of water per broadcast acre. Accurately calibrate spray equipment prior to each use.

Accurate, uniform placement of Galigan H₂O is essential for effective weed control and to minimize crop injury. Galigan H₂O must be applied as a directed spray to the orchard floor beneath the papaya plants. Do not allow the herbicide solution, spray, drift, or mist to contact green bark, stems, fruit, or foliage as injury may result. Galigan H₂O must be applied using rigid precision ground sprayer equipment.

SPECIFIC USE RESTRICTIONS
In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- Do not allow herbicide solution, spray, drift, or mist to contact green bark, stems, fruit, or foliage as injury may result.
- Do not apply more than 2.0 pints (1.0 lb. active) of Galigan H₂O per broadcast acre in a single directed spray or more than 6 pints (3.0 lbs. active) per broadcast acre per year as a result of multiple applications.
- Do not apply Galigan H₂O within 1 day of harvest.
- For use only on papaya grown in Hawaii.

NOT FOR USE IN CALIFORNIA

GENERAL INFORMATION
Galigan H₂O is effective as a preemergence and postemergence (post-directed) herbicide for the control of broadleaf weeds in soybeans. Applications can be made early preplant in conservation tillage soybeans, preemergence in no-till (double-crop) and conventional soybeans, or post-directed in conventional till soybeans. Seedling weeds are controlled as they come in contact with the herbicide either during emergence or through a post-directed application. Follow specific use directions and restrictions for recommended use and timing of applications.

Soybeans are tolerant to preemergence and post-directed applications of recommended dosages of Galigan H₂O herbicide; however, under certain conditions, Galigan H₂O herbicide can cause temporary injury. Heavy splashing rain shortly after crop emergence or cold, wet soil conditions during early growth stages can produce leaf cupping and crinkling. When injury occurs, it is generally limited to the first few leaves that develop shortly after crop plants emerge from the soil. Soybean leaves may recover from this injury and yield is not adversely affected. Soybean leaves that are accidentally sprayed during a post-directed application will exhibit necrotic spotting and injury to the soybean plant. Therefore, care must be exercised to avoid spray contact with the soybean leaves.

DOSAGE AND TIMING

CONSERVATION TILLAGE
Soybeans EARLY PREPLANT
Galigan H₂O herbicide is effective for preemergence and postemergence control of susceptible broadleaf weeds when surface applied at .75 to 1.5 pints (0.38 to 0.75 lb. active) per broadcast acre to the stale seedbed prior to the planting of conservation tillage soybeans. It is suggested that applications be made approximately 14 days prior to planting. The higher rate of 1 to 1.5 pints (0.5 to 0.75 lb. active) will assist in early season annual grass control. However, Galigan H₂O herbicide must not be a basic portion of the grass herbicide program. A planned program utilizing herbicides registered for early preplant, preemergence, or postemergence grass control in soybeans is recommended.

The use of ridge or slot planters or other planting equipment that results in minimal soil disturbance is recommended. Soil surfaces should not be disturbed as the herbicidal effectiveness of Galigan H₂O may be decreased. Seedling weeds are controlled as they come in contact with the soil-applied herbicide during emergence. Timely cultivations will usually assist in weed control.

NO-TILL (DOUBLE-CROP) SOYBEANS
PREEMERGENCE
Galigan H₂O herbicide is effective for preemergence and postemergence control of susceptible broadleaf weeds when applied at 0.25 to 1 pint (0.125 to 0.5 lb. active) per broadcast acre in a minimum of 20 gallons of water per acre. For postemergence control of certain grassy and broadleaf weeds, a tank mix of either parquat (Gramoxone) or glyphosate (Roundup) with Galigan H₂O herbicide can be used. For residual grass control in no-tillage soybeans, a tank mixture of Bronco* Magnum* 4E* A.S.** DF**** or *** Lexone at 0.33 lb. product (0.25 lb. active) per acre may result in severe crop injury and are not recommended. The Galigan H₂O / metribuzin herbicide tank mix may be applied as a preemergence application following a preplant incorporated grass herbicide treatment or as a three-way tank mix in a preemergence application with either Bronco Magnum, Lasso, or Surflan.

IMPORTANT: Read and observe all label directions before using. When mixing tank mixes, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

DOSAGE
Refer to the following tables for labeled use rates.

NO-TILL (DOUBLE-CROP) SOYBEANS
PREEMERGENCE

WEEDS CONTROLLED PREEMERGENCE (POST-DIRECTED APPLICATION) (continued)

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Galigan H₂O</th>
<th>Dual Magnum*</th>
<th>Lasso 4E*</th>
<th>Surflan A.S.**</th>
<th>Parquat (Gramoxone)</th>
<th>Glyphosate (Roundup)</th>
<th>Bronco*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse</td>
<td>0.25</td>
<td>1.0</td>
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<td>2.0</td>
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<td>Fine</td>
<td>0.25</td>
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<td>5.0</td>
<td>1.0</td>
<td>2.0</td>
<td>2.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

Muck or Peat

**Use the higher rate of Bronco, Dual Magnum, or Lasso on soils containing more than 3% organic matter.
**When using Surflan 75 WP, multiply pints by 0.67 to obtain the amount of Surflan 75WP product required. Do not use Surflan on soils containing more than 5% organic matter.

Do not use.

CONVENTIONAL TILLED SOYBEANS
PREEMERGENCE
Galigan H₂O herbicide is effective for preemergence control of susceptible broadleaf weeds when applied at 1/2 to 1.75 pints (0.125 to 0.38 lb. active) per broadcast acre. Application should be made within one day of planting. Late applications may result in severe crop injury and are not recommended. The higher rate (0.38 lb. active) will assist in early season annual grass control. However, Galigan H₂O herbicide must not be a basic portion of the grass herbicide program. Galigan H₂O herbicide may be applied alone as a preemergence application following a preplant incorporated grass herbicide treatment or as a tank mix in a preemergence application with Dual Magnum, Lasso, or Surflan.

CONVENTIONAL TILLED SOYBEANS
PREEMERGENCE

WEEDS CONTROLLED PREEMERGENCE

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Galigan H₂O</th>
<th>Dual Magnum*</th>
<th>Lasso 4E*</th>
<th>Surflan A.S.**</th>
<th>Metribuzin DF****</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse</td>
<td>0.30</td>
<td>0.75</td>
<td>1.0</td>
<td>3.0</td>
<td>6.0</td>
</tr>
<tr>
<td>Medium</td>
<td>0.25</td>
<td>1.0</td>
<td>1.33</td>
<td>4.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Fine</td>
<td>0.30</td>
<td>0.75</td>
<td>1.33</td>
<td>6.0</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Muck or Peat

**Use the higher rate of Bronco, Dual Magnum, or Lasso on soils containing more than 3% organic matter.
**When using Surflan 75 WP, multiply pints by 0.67 to obtain the amount of Surflan 75WP product required. Do not use Surflan on soils containing more than 5% organic matter.

Do not use.

**Sencor DF or Lexone DF.
WEEDS CONTROLLED PREEMERGENCE
When Galigan H₂O herbicide is tank mixed with Bronco, Dual Magnum, Lasso, or Surflan and applied preemergence, in addition to the weeds controlled preemergence by Galigan H₂O herbicide alone, control of the following weeds is also obtained:

- **BARNYARDGRASS**
- **CRABGRASS**
- **FOXTAIL, GIANT**
- **FOXTAIL, YELLOW**

**WEEDS CONTROLLED POSTEMERGENCE**
When Galigan H₂O herbicide is tank mixed with Bronco, paraquat (Gramoxone), or glyphosate (Roundup) and applied postemergence, in addition to the weeds controlled postemergence by Galigan H₂O herbicide alone, control of the following weeds is also obtained:

- **BLUEGRASS, ANNUAL**
- **BLUEGRASS, LARGE**
- **FOXTAIL, GIANT**
- **FOXTAIL, GREEN**

TIMING AND METHOD OF APPLICATION
As a preemergence treatment, apply in 20 to 60 gallons of water per acre. If Bronco or glyphosate (Roundup) are included in the tank mix, apply in 20 to 40 gallons of water per acre. To insure complete coverage, spray volume should be increased as the density of emerged weeds, crop residue, or stubble increases. Conventional spray equipment with flat fan or flat jet nozzles. Spray equipment should be calibrated carefully before each use.

POST-DIRECTED SPRAY
**GALIGAN 2E HERBICIDE USED ALONE**

**DOSAGE**
Galigan H₂O herbicide is recommended as a post-directed application at 1/2 pint (0.25 lb. active) per acre. Optimum control is achieved when Galigan H₂O herbicide is applied to seedling weeds not exceeding 4 true leaves. See MIXING DIRECTIONS for surfactant recommendations. Weeds should be in the seedling stage, young and actively growing. Do not count cotyledon leaves.

**TANK MIXES WITH GALIGAN H₂O HERBICIDE**
For improved broadleaf weed control, a tank mixture of Galigan H₂O herbicide plus Butoxone® or Butyrac 200 (0.175 to 0.22 lb. active) per broadcast acre. See MIXING DIRECTIONS for surfactant recommendations. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

TIMING
Soybeans plant height must be a minimum of 8 inches or greater. Use branch lifters or shields if excessive spray contact to the soybean plant cannot be avoided.

METHOD OF APPLICATION
Accurate, uniform placement of Galigan H₂O herbicide spray is essential for effective weed control and to minimize soybean injury. As a directed postemergence application, Galigan H₂O herbicide should be applied at 20 to 25 psi using 20 to 40 gallons of spray on a broadcast acre basis. Do not exceed 25 psi. Spray should be directed towards the base of the soybean plant. Soybean foliage receiving accidental spray or drift may be injured. Weeds should be in the seedling stage, young and actively growing.

Galigan H₂O herbicide can be applied using a post-directed spray rig with only 2 flat fan nozzles per row, 1 nozzle on each side of the row. Additional care should be taken when adjusting the sprayer prior to application. For best coverage, it is suggested to use 4 flat fan nozzles per row, 2 nozzles on each side of the row. The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer system, nozzles should be adjusted to cover the weed foliage with minimum contact to the soybean plant. Do not use cone nozzles.

**TANK MIXTURE OF GALIGAN H₂O HERBICIDE WITH COMMAND®**

**SOYBEANS (NOT FOR USE IN CALIFORNIA)**
Galigan H₂O herbicide when applied preemergence at 0.3 to 0.4 pint (0.16 to 0.2 lb. active) per acre in a tank mix combination with Command® at 1 to 1.25 pints (0.75 to 1.25 lb. active) is effective for the control of susceptible annual grass and broadleaf weeds in soybeans. Application should be made within one day following planting. Later applications may result in severe crop injury and are not recommended.

WEEDS CONTROLLED PREEMERGENCE
A tank mix of Galigan H₂O herbicide with Command® at recommended dosages provides preemergence control of the following weeds:

- **GRASS WEEDS**
  - **BARNYARDGRASS**
  - **CRABGRASS** (CRABGRASS, LARGE)
  - **CRABGRASS, SMOOTH**
  - **CUPGRASS, SOUTHWEST**
  - **CUPGRASS, WOOLLY**
  - **FOXTAIL** (FOXTAIL, GIANT)
  - **FOXTAIL, GREEN** (FOXTAIL, ROBUST PURPLE)
  - **FOXTAIL, YELLOW**
  - **GOOSEGRASS**
  - **JOHNSONGRASS, SEEDLING**
  - **PANICUM** (PANICUM, FALL)
  - **PANICUM, TEXAS**
  - **SANDBURR, FIELD**
  - **SIGNALGRASS, BROADLEAF** (BRACHARIAN)

- **BROADLEAF WEEDS**
  - **BEGGARWEED, FLORIDA**
  - **CROTTON, TROPIC**
  - ***GROUNDCHERRY, CUTLEAF**
  - **JIMSONWEED**
  - **LAMBSQUARTERS**
  - **MALLOW, VENICE**
  - ***NIGHTSHADE, BLACK**
  - **PIGWEED, REDROOT**
  - **PURSLANE, COMMION**
  - **PUSLEY, COMMION**
  - **SHEPHERDSPURSE**
  - **SIDA, PRICKLY**
  - **SMARTWEED, PENNSYLVANIA**
  - ***SOWTHISTLE, COMMION**
  - **VELVETFAX**

*Suppression

SOYBEANS
**SPECIFIC ENVIRONMENTAL HAZARDS**
This product is highly toxic to freshwater clams, oysters, aquatic invertebrates, and aquatic plants. Do not apply Galigan H₂O herbicide when visible erosion to aquatic habitats and/or wetlands occurs. (See elsewhere on this label for further information on Environmental Hazards).

**SOYBEANS SPECIFIC USE RESTRICTIONS**
In addition to the following, also observe GENERAL USE RESTRICTIONS listed at the end of this label.

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- Do not make more than two applications of Galigan H₂O herbicide per growing season.
- Do not apply more than 1 pint (0.5 lb. active) of Galigan H₂O herbicide per acre during one growing season as a result of preemergence application in no-till (double-crop) or conventional till soybeans or post-directed in conventional till soybeans. If early preplant application is made, do not apply more than 1.5 pints (0.75 lb. active) of Galigan H₂O herbicide per acre during one growing season.
- Do not apply a post-directed application of Galigan H₂O herbicide to soybeans after the initial appearance of blooms.

TARO (HAWAII ONLY)

**GENERAL INFORMATION**
Galigan H₂O may be used for preemergence and post-directed application to dryland taro for the partial control of certain broadleaf weeds.

NOTE: Dryland taro is defined as a taro grown without irrigation or by using irrigation practices that do not result in runoff, irrigation return flow, or other loss of irrigation water from the production area. If irrigation is used, the water applied shall not exceed the field capacity of the soil. Occasionally, after the use of Galigan H₂O, a spotting, crinkling, or flecking may appear on the leaves of the taro. Leaves that receive direct or indirect (drift) spray contact will be injured. Do not use Galigan H₂O on taro plantings that are weak or under stress due to temperature, disease, pest, nematodes, insects, pesticides, drought, or excessive moisture.

**DOSAGE**
Apply Galigan H₂O at a rate of 1 pint (0.5 lb. active) per broadcast acre as a single preemergence application within one week following transplanting (and prior to emergence) of the taro. Galigan H₂O is also recommended as a post-direct application of 0.5 pint (0.25 lb. active) per acre. Effective control of succulent weed seedlings in the 2- to 3-leaf stage can usually be obtained. Do not apply more than 0.5 pint (0.25 lb. active) of Galigan H₂O per acre in a single post-direct application or more than 1 pint (0.5 lb. active) per broadcast acre per season as a result of multiple post-direct applications.

Dosages listed are for broadcast application. For banded application, the amount of Galigan H₂O used per acre should be reduced according to the following formula:

\[ \text{Band Width (in inches)} \times \text{Rate per Broadcast Acre} = \text{Amount Needed per Acre for Banded Application} \]

**WEEDS CONTROLLED**
Galigan H₂O will provide preemergence and postemergence control of the following weeds when used at the recommended dosages. Applications to weeds beyond the 3-leaf stage may result in partial control:

- **AMARNATH, SPINY**
- **PURSLANE, COMMON**
- **SPURGE, GARDEN**

TIMING AND METHOD OF APPLICATION
Galigan H₂O should be thoroughly mixed with clean water at recommended concentrations and applied in a minimum of 15 gallons of water per acre.

When applied preemergence, use conventional ground spray equipment with flat fan nozzles at 20 to 40 psi. Accurately calibrate spray equipment prior to each use. When applied as a post-direct spray, sprays must be directed to the base of the taro plant. Galigan H₂O must be applied using rigid precision ground spray equipment. As a directed postemergence application, Galigan H₂O should be applied at 20 to 25 psi using 20 to 40 gallons of spray on a broadcast acre basis. Do not exceed 25 psi.
**TREE FRUITS, NUTS, VINES**

**DORMANT APPLICATION**

ALMOND, APPLE, APRICOT, AVOCADO, BEECH NUT, BRAZIL NUT, BUTTERNUT, CASHEW, CHEWY, CHER-30

**GENERAL INFORMATION**

Galigan H₂O is effective as a preemergence and/or postemergence herbicide when used alone or in recommended combinations for the control of certain annual broadleaf weeds in certain bearing and non-bearing tree fruit, nut, or vine plantings. The most effective postemergence weed control is achieved when Galigan H₂O is applied to seedlings. For postemergence control of certain grassy and broadleaf weeds, a tank mixture of Galigan H₂O with either paraquat or glyphosate can be used.

**WEEDS CONTROLLED POSTEMERGENCE**

Apply 2.5 to 3 pints (0.5 to 1.5 lbs. active) per broadcast acre. For preemergence control of susceptible weeds, use 2.5 to 3 pints (1.25 to 1.5 lbs. active) per broadcast acre.

**WEEDS CONTROLLED PREEMERGENCE**

Apply 2.5 to 3 pints (0.5 to 1.5 lbs. active) of Galigan H₂O per broadcast acre. Applications to weeds beyond the 4-inch stage may result in partial control.

**ALL OTHER STATES (EXCEPT CALIFORNIA AND ARIZONA)**

Galigan H₂O is recommended for postemergence control at 1 to 3 pints (0.5 to 1.5 lbs. active) per broadcast acre. For preemergence control of susceptible weeds, use 2.5 to 3 pints (1.25 to 1.5 lbs. active) per broadcast acre.

**ALL STATES TIMING AND METHOD OF APPLICATION**

In Arizona and California, Galigan H₂O can be applied during the period following completion of final harvest up to February 15 (February 1st in the Coachella Valley, California). Applications made after the calendar dates above but prior to bud swell may result in significant crop injury and are the responsibility of the user.

In all states, do not apply Galigan H₂O after buds start to swell until completion of final harvest. Do not apply when fruits or nuts are present. Galigan H₂O can be applied upon completion of final harvest.

As a preemergence treatment, apply a minimum of 40 gallons of water per acre. Use higher volumes to ensure adequate coverage in high densities of emerged weeds or heavy trash. Best pre-emergence results are achieved when spray is applied to a relatively weed-free established berm or soil surface. Galigan H₂O should be directed to the soil and the base of dormant trees or vines. Use a low-pressure sprayer equipped with a breakup boom and flat fan nozzles. An off-center DC nozzle positioned at the end of the boom may be desired. Do not apply to grape plantings that are under stress due to drought, flooding, excessive fertilizer or soil salts, storage conditions, wind injury, hail, injury from previously applied pesticides, or injury due to insects, nematodes, or diseases, as severe crop injury may result. See **SPECIAL USE RESTRICTIONS** for Galigan H₂O application on dormant tree or vine plantings.

In California, Galigan H₂O may be applied as an over-the-top or directed spray to dormant non-bearing grape plantings. The use of a low-pressure sprayer is suggested. Do not apply over-the-top to grape plantings that are under stress due to drought, flooding, excessive fertilizer or soil salts, storage conditions, wind injury, hail, injury from previously applied pesticides, or injury due to insects, nematodes, or diseases as severe crop injury may result.

**SPRAY VOLUME**

<table>
<thead>
<tr>
<th>Weed Stage</th>
<th>Gallons of Water Per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preemergence</td>
<td>40 or more</td>
</tr>
<tr>
<td>Postemergence (up to 4-inch or 4-leaf stage)</td>
<td>40 or more</td>
</tr>
<tr>
<td>Exceeding 4-leaf stage</td>
<td>100 or more</td>
</tr>
</tbody>
</table>

**CHEMIGATION (ALL STATES):** For dormant season application using sprinkler (low-volume [microsprinkler], drip [trickle]), and flood (basin) irrigation systems, apply specified dosage of Galigan H₂O at the 3 pint (1.5 lbs. active) rate or any of the combinations recommended on this label. Inspect treated sites regularly and take corrective action to minimize drift. Do not apply sprays when irrigation systems are in operation or when irrigation water is applied within 24 hours of application.

**TANK MIXES WITH GALIGAN H₂O**

**IMPORTANT:** Read and observe all label directions before using. When tank mixing, always read all individual manufacturer’s labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

**DOSAGE**

For preemergence control of susceptible grassy and broadleaf weeds in certain bearing and non-bearing tree fruit, nut, or vine plantings, a tank mixture of paraquat or glyphosate with Galigan H₂O can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels. For postemergence control of susceptible grassy and broadleaf weeds in certain tree fruit, nut, or vine plantings, a tank mixture of paraquat or glyphosate with Galigan H₂O or combinations of Galigan H₂O plus napropamide (Devrinol), diuron, propanamide (Kerb), simazine, norflurazon (Solicam), or oryzalin (Surflan) can be applied. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective labels.

**WEEDS CONTROLLED**

In addition to the weeds controlled by Galigan H₂O used alone, control of susceptible weeds listed on the respective labels for the following products is also obtained.

<table>
<thead>
<tr>
<th>Herbicide</th>
<th>Rate and/or Application</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>diuron</td>
<td>norflurazon (Solicam)</td>
<td>pramocarb (Kerb)</td>
</tr>
<tr>
<td>glyphosate</td>
<td>oryzalin (Surflan)</td>
<td>simazine</td>
</tr>
<tr>
<td>napropamide (Devrinol)</td>
<td>paraquat</td>
<td></td>
</tr>
</tbody>
</table>

*In addition, simazine provides preemergence control of horseweed (marestail).

**TREE FRUITS, NUTS, VINES**

**DORMANT APPLICATION**

**SPECIFIC USE RESTRICTIONS**

In addition to the following, also observe **GENERAL USE RESTRICTIONS** listed elsewhere on this label.

- Do not apply Galigan H₂O during the period between bud swell and completion of final harvest or when fruit or nuts are present. Galigan H₂O can be applied upon completion of final harvest.
- The use of any treated plants for feed or forage and the feeding or grazing of any treated area is prohibited.

In Arizona and California, Galigan H₂O can be applied during the period following completion of final harvest up to February 15 (February 1st in the Coachella Valley, California). Applications made after the calendar dates above but prior to bud swell may result in significant crop injury and are the responsibility of the user.

Do not apply more than 3 pints (1.5 lbs. active) per broadcast acre of Galigan H₂O herbicide in one season.

Do not apply to grapes or kiwi established less than 3 years unless vines are on a trellis wire a minimum of 3 feet above the soil surface.

Do not apply to grapes or kiwi that are not staked or trellised unless vines are free-standing.

Galigan H₂O or any of the combinations recommended on this label should be applied only to healthy growing trees or vines.

Direct spray toward the base of trees or vines unless specific recommendations allow over-the-top applications. Avoid direct plant contact.
CHEMIGATION APPLICATION: Galigan H₂O may be applied using sprinkler [low-volume (microsprinkler)] and drip (trickle) irrigation systems designed to distribute irrigation water beneath the vine canopy. The application of Galigan H₂O is intended to supplement the preemergence weed control requirements of a broadcast (or directed) weed control program where weed emergence is anticipated within the wetted area of the low-volume sprinkler (microsprinkler) or drip (trickle) irrigation system. Applications should be made prior to weed emergence since postemergence activity will be inconsistent due to partial coverage. Apply the specified dosage of Galigan H₂Oacre as described in DOSAGE AND APPLICATION TIMING section above for non-dormant grapes. Meter Galigan H₂O at a continuous uniform rate during the middle 1/3 of the irrigation period to allow for uniform distribution to the soil surface. For best results, Galigan H₂O should be uniformly positioned across the wetted area to help reduce the RING EFFECT of weed escapes as other products begin to break down around the emitter. Continue irrigation during the final 1/3 of the irrigation period to insure proper flushing of the irrigation system. Follow all directions given in the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS – CHEMIGATION when making applications using sprinkler irrigation systems. Do not allow treated irrigation water to contact the fruit or foliage.

GRAPE APPLICATION – CALIFORNIA ONLY

SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- The total amount of Galigan H₂O applied during one season (from completion of final harvest through dormancy to non-dormant use covered by this section) cannot exceed 3 pints (1.5 lbs. active) per acre as a result of multiple applications in any given area (broadcast, banded, or within the wetted area of low-volume sprinkler or drip irrigation systems).
- Do not apply within 14 days of harvest.
- Do not apply Galigan H₂O applications in non-dormant grapes until the bloom of grapes.
- Do not apply to grapes established less than 3 years unless vines are either on a trellis wire a minimum of 3 feet above the soil surface or protected by grow tubes.
- Galigan H₂O should be applied only by ground application equipment or through low-volume sprinkler (microsprinkler) or drip (trickle) irrigation systems as specified above.
- Apply Galigan H₂O as a non-dormant application to wine grapes or raisin grapes only.

GRAPE APPLICATION – WASHINGTON AND OREGON ONLY

WINE AND PROCESSING ONLY

GENERAL INFORMATION

Galigan H₂O may be used to assist with sucker control in grapes (wine and processing grapes only) when applied as a directed ground spray application to suckers growing from the base of the plant. The use of Galigan H₂O will typically reduce (but not eliminate) the need for sucker removal by hand.

CROP TOLERANCE

The use of Galigan H₂O may in some instances result in varying degrees of injury to non-dormant grapes. Grape foliage will typically exhibit injury symptoms from direct or indirect (spray drift, soil contact) exposure to Galigan H₂O. This injury may result in leaf necrosis, reddening of the foliage, leaf cupping, or crinkling of the crop. The grape plant continues to grow normally. Immature, expanding leaves at the time of contact with Galigan H₂O are the most susceptible to foliage injury. Grapes may exhibit some small blemishes (spots or flicks) on the fruit.

RATE AND APPLICATION TIMING

Apply Galigan H₂O at a rate of 0.5 to 1 pint (0.25 to 0.5 lb. active) per acre in a spray volume of 50 gallons (or more) per broadcast acre to newly emerging suckers growth up to 12 inches in length. The highest rate and/or a second application may be required to achieve an acceptable level of control/suppression of grape suckers. Do not apply more than 3 pints (1.5 lbs. active) per broadcast acre as a result of multiple applications made during a single season (dormant and non-dormant). The use of Galigan H₂O will typically reduce (but not eliminate) the need for sucker removal by hand. Applications can be made to non-dormant grapes up to three weeks after bloom. Do not use within 60 days of harvest.

Add 2 pints of Latron AG-98 (or comparable 80% active nonionic surfactant cleared for application to growing crops) per each 100 gallons of spray.

Rate indicated above are for broadcast application. For banded applications, the amount of Galigan H₂O used per acre should be reduced according to the following formula:

\[
\text{Amount Needed per Acre} = \text{Rate per Broadcast Acre} \times \frac{\text{Width (in inches)}}{\text{Row Width (in inches)}}
\]

METHOD OF APPLICATION

Galigan H₂O should be applied in a three-foot band directed towards the base of the grapevine. Applications are to be directed towards the lower portion of the grapevine to minimize leaf injury from spray contact. Avoid spray contact on flowers, grape clusters, or fruit. Mounted nozzles are used to deliver the spray solution. Thorough spray coverage of sucker growth is essential to maximize the activity of Galigan H₂O. Spray equipment should be calibrated carefully before each use.

AVOID DRIFT TO ALL OTHER CROPS AND NON-TARGET AREAS. DO NOT APPLY WHEN WEATHER CONDITIONS FAVOR DRIFT. GALIGAN H₂O IS PHYТОTOXIC TO PLANT FOLIAGE.

TANK MIXTURES WITH GALIGAN H₂O

IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

TANK MIXTURES WITH GALIGAN H₂O

GENERAL INFORMATION

Galigan H₂O may be used for the control/suppression of susceptible broad leaf weed species in non-dormant grapes (raisin and wine grapes only) when applied either as a directed ground spray application or for supplemental preemergence weed control through low-volume sprinkler (microsprinkler) or drip (trickle) irrigation systems. Galigan H₂O can be applied to all grapes (raisin, table, wine) when applied as a dormant application as specified above. The total amount of Galigan H₂O applied during one season (from completion of final harvest through dormancy to non-dormant use covered by this section) cannot exceed a total of 3 pints (1.5 lbs. active) per acre as a result of multiple applications in any given area (broadcast, banded, or within the wetted area of low-volume microsprinkler or drip irrigation systems).

CROP TOLERANCE INFORMATION

The use of Galigan H₂O may in some instances result in varying degrees of injury to non-dormant grapes. Grape foliage will typically exhibit injury symptoms from direct or indirect (spray drift, soil contact) exposure to Galigan H₂O. This injury may result in leaf necrosis, reddening of the foliage, leaf cupping, or crinkling of the crop. The grape plant continues to grow normally. Immature, expanding leaves at the time of contact with Galigan H₂O are the most susceptible to foliage injury. Grapes may exhibit some small blemishes (spots or flicks) on the fruit.

DOSAGE AND APPLICATION TIMING

Applications can be made to non-dormant grapes during the period between the completion of bloom up through 14 days prior to harvest. Galigan H₂O is recommended for use at rates of 0.5 to 1 pint (0.25 to 0.5 lb. active) per broadcast acre. Do not apply more than 3 pints (1.5 lbs. active) per broadcast acre per season as a result of multiple applications made during the dormant and non-dormant season (up to 14 days prior to harvest).

WEEDS CONTROLLED / SUPPRESSED POSTEMERGENCE

For postemergence control/suppression, apply 0.5 to 1 pint (0.25 to 0.5 lb. active) per broadcast acre to susceptible weed seedlings up to 4 inches in height. Repeat applications may be required. Applications to weeds beyond this 4-inch stage or at reduced use rates will result in reduced herbicidal activity. For enhanced postemergence activity on certain grassy and broadleaf weeds, a tank mixture of Galigan H₂O with either paraquat or glyphosate can be used when applied as a directed spray with ground application equipment.

CHEESWEED (MALVA)

NETTLE, BURNING

FIDDLENECK, COAST

NIGHTSHADE, BLACK

GROUNDSEL, COMMON

PIGWEED, REDROOT

HENBIT

PURSLANE, COMMON

MINER’S LETTUCE

REDMAIDS

MORNINGSKY GLORIOUS, ANNUAL

ROCKET, LONDON

MUSTARD, BLACK

SOWTHISTLE, ANNUAL

Where postemergence weed activity is desired, add 1 quart of Latron AG-98 (or comparable 80% active nonionic surfactant cleared for application to growing crops) per each 100 gallons of spray.

TANK MIXTURES WITH GALIGAN H₂O

IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

For enhanced postemergence activity on a broader spectrum of grassy and broadleaf weeds in the berm or row middles, a tank mixture of Galigan H₂O with either paraquat or paraquat may be used. Applications at reduced rates will result in reduced herbicidal activity.

BURCLOVER

CHEESWEED (MALVA)

NETTLE, BURNING

FIDDLENECK, COAST

NIGHTSHADE, BLACK

GROUNDSEL, COMMON

PIGWEED, REDROOT

HENBIT

PURSLANE, COMMON

KNOTWEED, PROSTRATE

ROCKET, LONDON

LAMBSQUARTERS, COMMON

SHEPHERDSPURSE

MINER’S LETTUCE

SOWTHISTLE, ANNUAL

MUSTARD, BLACK

METHOD OF APPLICATION

GENERAL INFORMATION

Galigan H₂O should be thoroughly mixed with clean water at recommended concentrations and applied in a minimum of 20 gallons of water per acre (a minimum of 10 gallons per acre for tank mixes with glyphosate). Use higher volumes to ensure adequate coverage in high densities of emerged weeds or heavy trash. Best preemergence results are achieved when spray is applied to a relatively weed-free established berm or soil surface.

Galigan H₂O should be directed to the soil and the base of vines. Use a low-pressure sprayer equipped with a breakup boom and flat fan nozzles. An off-center (OC) nozzle positioned at the end of the boom may be desired. Spray equipment should be calibrated carefully before each use.

See SPECIFIC USE RESTRICTIONS for Galigan H₂O herbicide application on non-dormant vine plantings.

Thoroughly flush the spray equipment (tank, hose, pump, boom) with water before and after each use. Residual Galigan H₂O remaining in spray equipment may damage other crops.

AVOID DRIFT TO ALL OTHER CROPS AND NON-TARGET AREAS. DO NOT APPLY WHEN WEATHER CONDITIONS FAVOR DRIFT. GALIGAN H₂O HERBICIDE IS PHYTOXIC TO PLANT FOLIAGE.
GRAPES (WASHINGTON AND OREGON ONLY)
WINE AND PROCESSING ONLY
SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- The total amount of Galigan H₂O applied during one crop year (dormant and non-dormant) cannot exceed 3 pints (1.5 lbs. active) per acre as a result of multiple applications in any given area (broadcast or banded).
- Galigan H₂O should be applied only by ground application equipment.
- Apply Galigan H₂O as a non-dormant application for sucker control to wine grapes or processed grapes only.
- Do not apply when weather conditions favor drift. Avoid drift to all non-target areas.
- Galigan H₂O is phytotoxic to plant foliage.
- Do not apply Galigan herbicide within 60 days of harvest.
- Do not treat ditch banks or waterways with Galigan H₂O.

PISTACHIOS, WALNUTS, ALMONDS (CALIFORNIA ONLY)

NON-DORMANT APPLICATION
GENERAL INFORMATION
Galigan H₂O provides effective vegetation management when applied to young broadleaf weed seedlings. For enhanced postemergence activity on certain grassy and broadleaf weeds, a tank mixture of Galigan H₂O with either paraquat or glyphosate can be used when applied with ground equipment.

DOSAGE
Galigan H₂O is recommended for postemergence suppression at 0.5 to 1 pint (0.25 to 0.5 lbs. active) per broadcast acre to susceptible weed seedling less than 4 inches in height. Repeat applications may be required.

For cleanup sprays and preharvest applications for contact (postemergence) control, apply Galigan H₂O at 1 to 3 pints (0.5 to 1.5 lbs. active) per broadcast acre to susceptible weed seedlings not exceeding the 4-inch stage. Applications to weed seedlings beyond the 4-inch stage may result in partial control.

For residual (preemergence) control of susceptible weeds, use 2.5 to 3 pints (1.25 to 1.5 lbs. active) per broadcast acre.

WEEDS SUPPRESSED AND/OR CONTROLLED

CHEESEWEED (MALVA)  MORNINGGLORY SPECIES, ANNUAL
FIDDLEDEE, COAST  MUSTARD, BLACK
FILAREE, BROADLEAF  NETTLE, BURNING
FILAREE, REDSTEM  PIGWEED, REDROOT
FILAREE, WHITESTEM  PURSLANE, COMMON
GROUNDSEL, COMMON  REDMOS
HENBIT  ROCKET, LONDON
MINER’S LETTUCE  SOWTHISTLE, ANNUAL

TANK MIXTURES WITH GALIGAN H₂O

IMPORTANT: Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.

DOSAGE
For enhanced postemergence activity on a broader spectrum of grass weeds and broadleaf weeds in the tree row middles, a tank mixture of Galigan H₂O with either paraquat or glyphosate can be used. Apply at the recommended rates and growth stages to susceptible weed species in a manner described on the respective label.

WEEDS SUPPRESSED AND/OR CONTROLLED

BARNYARDGRASS  HORSEWEED (MARESTAIL)
BLUEGRASS, ANNUAL  ROCKET, LONDON
CHICKWEED, COMMON  RYEGRASS, ITALIAN

METHOD OF APPLICATION
GROUND APPLICATION: Apply a minimum spray volume of 20 gallons of water per acre (minimum 0.10 gallons for orchard, vineyard, or turf tank mix). Use higher volumes to ensure adequate coverage in high densities of emerged weeds or heavy trash. Use conventional low-pressure ground spray equipment with flat fan spray nozzles at 20 to 40 psi. An off-center nozzle positioned at the end of the boom may be desired. Spray equipment should be calibrated carefully before each use.

CHEMIGATION APPLICATION: Apply this product only through flood (basin) irrigation systems or low-volume sprinkler (microsprinkler) and drip (trickle) irrigation systems designed to distribute irrigation water beneath the tree canopy. For flood (basin) irrigation systems, Galigan H₂O should be continuously metered into the water during the entire irrigation period. Agitation in the pesticide supply tank is suggested. Best weed control results are obtained when a uniform distribution and flow of irrigation water is maintained over level land. Galigan H₂O may be applied through low-volume sprinkler (microsprinkler) and drip (trickle) irrigation systems designed to distribute irrigation water beneath the tree canopy. The application of Galigan H₂O is intended to supplement the preemergence weed control requirements of a broadcast (or directed) weed control program, where weed emergence is anticipated within the wetted area of a low-volume sprinkler (microsprinkler) or drip (trickle) irrigation system. Applications should be made prior to weed emergence since postemergence activity will be inconsistent due to partial coverage. Meter Galigan H₂O at a continuous rate during the middle one-third of the irrigation period to allow for uniform distribution to the soil surface. For best results, Galigan H₂O should be uniformly positioned across the treated area to help reduce the “ring effect” of applied escapes, as other products begin to break down around the emitter. Continue irrigation during the final one-third of the irrigation period to insure proper flushing of the irrigation system. Irrigation water treated with Galigan H₂O must be contained on the treated area until the water is absorbed by the soil. Do not apply when wind speed favors drift beyond the area intended for treatment.

CULTURAL CONSIDERATIONS FOR ALL APPLICATIONS: In order to provide maximum effectiveness of preemergence activity of Galigan H₂O, the berm or soil surface should be level, smooth, and free of crop or weed trash (decaying leaves, clippings, dead weeds, etc.). Leaves and trash may be removed by blowing the area to be treated or by thoroughly mixing the trash into the soil through cultivation prior to herbicide application.

Cultural practices that result in redistribution of disturbance of the soil surface after treatment will decrease the herbicidal effectiveness of Galigan H₂O. Cutting water furrows or cultivations that mix untreated soil into treated areas will also reduce the effectiveness of the treatment. The best results are from applications to established and undisturbed soil surfaces that are left undisturbed during the time period for which weed control is desired.

PISTACHIOS, WALNUTS, ALMONDS
NON-DORMANT APPLICATION
SPECIFIC USE RESTRICTIONS

In addition to the following, also observe GENERAL USE RESTRICTIONS listed elsewhere on this label.

- WHEN APPLIED AS A NON-DORMANT TREATMENT, GALIGAN H₂O CAN ONLY BE APPLIED TO PISTACHIO PLANTINGS BETWEEN MAY AND 7 DAYS PRIOR TO HARVEST.
- WHEN APPLIED AS A NON-DORMANT TREATMENT, GALIGAN H₂O CAN ONLY BE APPLIED TO ALMOND PLANTINGS BETWEEN APRIL 1 AND SEPTEMBER 30 AND TO WALNUT PLANTINGS BETWEEN MAY 1 AND SEPTEMBER 30.
- Do not apply Galigan H₂O within 7 days of harvest of pithichios, nor within 30 days of harvest of almonds, nor within 7 days of harvest of walnuts.
- Do not apply more than 3 pints (1.5 lbs. active) per broadcast acre of Galigan H₂O during the non-dormant season.
- Galigan H₂O should be applied only to healthy growing trees.
- Direct spray toward the base of tree. Avoid direct herbicide contact with foliage or nuts.

WINDBREAKS AND SHELTERBELTS
(MINNESOTA, NORTH DAKOTA, SOUTH DAKOTA, WYOMING ONLY)

GENERAL INFORMATION

Galigan H₂O is effective as a preemergence and/or postemergence herbicide for the control of certain annual broadleaf weeds in windbreaks and shelterbelts. Preemergence control is most effective when sprayed to clean, weed-free soil surfaces. Treated soil surfaces should not be disturbed as the herbicidal effectiveness of Galigan H₂O may be decreased. Seedling weeds are controlled during emergence as they come in contact with the soil-applied herbicide. The most effective postemergence weed control is achieved when Galigan H₂O is applied with thorough coverage of weeds in the seeding stage.

Importantly, after the use of Galigan H₂O, a spotting, crinkling, or flecking may appear on leaves of deciduous species. Leaves that receive direct or indirect (drift) spray contact will be injured. Deciduous species typically outgrow this condition rapidly and develop normally.

IMPORTANT: Some varieties or cultivars of conifers and deciduous species listed may be susceptible to Galigan H₂O. Care should be taken to ensure that the particular variety to be sprayed with Galigan H₂O is tolerant. It is suggested that unfamiliar species be tested in limited areas prior to application for preemergence and postemergence weed control.

WEEDS CONTROLLED

When Galigan H₂O is applied preemergence or postemergence (up to 4-leaf stage) at recommended rates, the following broadleaf weeds are controlled.

BUCKWHEAT, WILD  MUSTARD, WILD
BURCLOVER  NETTLE, BURNING
CARPETWEED  NIGHTSHADE, BLACK
DOCK, CURLY  NIGHTSHADE, HAIRY
GROUNDCHERRY, CUTLEAF  OATS, WILD
GROUNDCHERRY, WRIGHT  ORACH, RED
GROUNDSSEL, COMMON  PEPPERWEED, YELLOWFLOWER
HENBIT  PENSTEMON, PROSTATE
JIMSONWEED  PIOT, COMMON
KNOTWEED, PROSTATE  PURSLANE, COMMON
KOVIA  ROCKET, LONDON
LADYSTHUMB  SHELTERSPURSE
LAMBQUARTERS, COMMON  SMARTWATER, PENNSYLVANIA
LETUCE, PRICKLY  SOWTHISTLE, ANNUAL
MALLOW, LITTLE  TANSY MUSTARD
MAYWEED  THISTLE, RUSSIAN (SEEDLING)
MUSTARD, BLUE  VELVETLEAF
MUSTARD, TUMBLE

*Highest rate and/or multiple applications may be required for acceptable control.

GRASSES CONTROLLED

When Galigan H₂O is applied preemergence or postemergence (up to 2-leaf stage) at recommended rates, the following annual grasses are controlled/suppressed.

BARNYARDGRASS  FOXTAIL, GIANT
BLUEGRASS ANNUAL  GOOSEGRASS
CRABGRASS, LARGE  WITCHGRASS

Galigan H₂O is most effective when applied preemergence to annual grasses. Postemergence applications should be made to seedling grasses not exceeding the 2-leaf stage. The addition of 0.25% (2 pints per 100 gallons of spray solution) of an 80% active nonionic surfactant, cleared for application on growing crops, enhances the Galigan H₂O activity on emerged weeds. When determining an appropriate use rate where a range of rates is provided, use higher rates where heavy weed pressure is anticipated, or where medium and fine soil textures exist and high organic matter soils are present.
Galigan H₂O may be applied to conifer and deciduous species including the following:

**CONIFER SPECIES**

- **SCIENTIFIC NAME**
  - Thuja occidentalis
  - Pseudotsuga menziesii

- **COMMON NAME**
  - Douglas Fir
  - Noble Fir

**DECIDUOUS SPECIES**

- **SCIENTIFIC NAME**
  - Abies fraseri
  - Abies grandis
  - Abies procera

- **COMMON NAME**
  - Crabapple
  - Tsuga canadensis
  - Tsuga heterophylla
  - Juniperus chinensis
  - Juniperus horizontalis
  - Juniperus procumbens
  - Juniperus sabina
  - Juniperus scopulorum

**SPRUCE**

- **SCIENTIFIC NAME**
  - Picea glauca conica

- **COMMON NAME**
  - Dwarf Alberta Spruce

**PINE**

- **SCIENTIFIC NAME**
  - Pinus nigra
  - Pinus strobus
  - Pinus wallichiana
  - Pinus banksiana
  - Pinus taeda
  - Pinus contorta
  - Pinus palustris
  - Pinus radiata
  - Pinus mugo
  - Pinus ponderosa
  - Pinus sylvestris
  - Pinus echinata
  - Pinus elliottii
  - Pinus virginiana
  - Picea pungens
  - Picea glauca conica
  - Picea abies
  - Picea schrenkiana
  - Juniperus virginiana
  - Taxus spp.

**AMERICAN YEW**

- **SCIENTIFIC NAME**
  - Taxus canadensis
  - Taxus brevifolia
  - Taxus cuspidata

**DOUGLAS FIR**

- **SCIENTIFIC NAME**
  - Pseudotsuga menziesii

- **COMMON NAME**
  - Lodgepole Pine
  - Western Hemlock

**EASTERN HEMLOCK**

- **SCIENTIFIC NAME**
  - Tsuga canadensis

- **COMMON NAME**
  - Eastern Hemlock

**JUNIPER**

- **SCIENTIFIC NAME**
  - Juniperus virginiana

Galigan H₂O may be applied pre-transplant, post-directed, or post-emergence (over-the-top) to conifer, deciduous, and evergreen species. Applications should be made after transplanting to obtain the greatest benefit of Galigan H₂O on susceptible annual broadleaf weeds during the time period for which weed control is desired. However, timely cultivations after weed emergence will assist in weed control.

**WINDBREAKS AND SHELTERBELTS**

**SPECIFIC USE RESTRICTIONS**

In addition to the following, observe **GENERAL USE RESTRICTIONS** listed elsewhere on this label.

- **DO NOT** apply more than 3 pints (1.5 lbs. active) of Galigan H₂O per treated acre per growing season as a result of single or multiple applications.
- **ALWAYS** apply Galigan H₂O to healthy deciduous and/or conifer species.
- **DO NOT** apply Galigan H₂O to conifers or deciduous species that have been weakened or are under stress from excessive fertilizer or soil salts, disease, nematodes, frost, drought, flooding, previously applied pesticides, soil insects, or winter injury, as severe injury may result.

**SPECIFIC USE RESTRICTIONS FOR INDIVIDUAL CROPS ARE FOUND UNDER DIRECTIONS FOR USE IN EACH CROP GROUP SECTION.**

**GENERAL USE RESTRICTIONS**

**USE RESTRICTIONS THAT APPLY TO ALL REGISTERED APPLICATIONS ARE LISTED BELOW:**

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- Do not contaminate irrigation water or water used for domestic purposes.
- Do not use any plants treated with Galigan H₂O for feed or forage.
- Do not feed or allow animals to graze on any areas treated with Galigan H₂O.
- Galigan H₂O should be applied only by ground application equipment except as specifically directed on this label or on other approved supplemental labeling.
- Do not apply when weather conditions favor drift. Avoid drift to all non-target areas. Galigan H₂O is phytotoxic to plant foliage.
- Thorough flush spray equipment (tank, pump, hoses, and boom) with clean water before and after each use. Residual Galigan H₂O remaining in spray equipment may damage other crops.
- To assist in the removal of Galigan H₂O residues in spray equipment, a non-ionic surfactant may be added at the rate of 1 quart per 100 gallons of water during flushing.
- Use Galigan H₂O only for recommended purposes and at recommended rates.
- Do not treat ditch banks or waterways with Galigan H₂O.
- On all labeled food and/or feed crops, the maximum seasonal application rate is 1.5 lbs. active ingredient (3 pints of this product) per acre (except tropical commodities grown in Hawaii).
- On all labeled ornamentals, the maximum application rate of 1.5 lbs. active ingredient (3 pints of this product) per application is allowed. A total of 4.5 lbs. active ingredient (9 pints of this product) is allowed per season.
- On all labeled conifer seedings, the maximum application rate is 2 lbs. active ingredient (4 pints of this product) per acre.
- On all labeled tree nurseries and plantations, rights of way, irrigation systems, uncultivated non-agricultural land, and industrial sites, the maximum single application rate is 2 lbs. active ingredient (4 pints of this product) per acre and per application and 2 lbs. active ingredient (4 pints of this product) per acre per season.

**GENERAL USE RESTRICTIONS**

**USE RESTRICTIONS THAT APPLY TO ALL REGISTERED APPLICATIONS ARE LISTED BELOW:**

- Read and observe all label directions before using. When tank mixing, always read all individual manufacturers’ labels. In interpreting all labels for the tank mixture, the most restrictive situations must apply.
- **DO NOT** apply during periods of new foliage growth. Applications should be made after foliage has fully expanded and hardened off. Direct spray toward the base of the trees. Avoid direct or indirect spray contact with the foliage of the deciduous species.

In general, Galigan H₂O should be thoroughly mixed with clean water at the recommended concentration and applied at 20 to 40 psi in a minimum of 20 gallons of water per acre as a broadcast, banded, or post-directed spray. Thorough spray coverage is essential to maximize the postemergence activity of Galigan H₂O. Spray equipment should be calibrated carefully before each use.

Pretransplant applications must be made after completion of soil preparation but prior to transplanting. Transplanting should be completed with minimal soil disturbance. Treated soil surfaces should be left undisturbed after transplanting to obtain the greatest benefit of Galigan H₂O on susceptible annual broadleaf weeds during the time period for which weed control is desired. However, timely cultivations after weed emergence will assist in weed control.
Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation and the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**SPRINKLER CHEMIGATION (FOLIAR SPRAY USES)**

For sprinkler irrigation, sufficient water should be applied at the beginning of the irrigation period to insure uniform wetting of the plant and/or soil surfaces. Meter Galigan H₂O at a continuous uniform rate during the middle one-third of the irrigation period to allow for uniform distribution to the vegetation and/or soil surface. Continue irrigation during the final one-third of the irrigation period to insure proper flushing of the irrigation system. During sprinkler irrigation, sufficient water should be applied to insure water penetration to a depth of two inches. To apply a pesticide using sprinkler chemigation, the chemigation system must meet the following specifications:

- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

**FLOOD (BASIN) CHEMIGATION (SOIL DRENCH USES)**

Galigan H₂O should be continuously metered into the water during the entire irrigation period. Agitation in the pesticide supply tank is suggested. Best weed control results, from Galigan H₂O applied through flood (basin) irrigation systems, are obtained when a uniform distribution and flow of irrigation water is maintained over level land. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as drop structure or weir box to decrease potential for water source contamination from backflow when water flow stops. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain functional automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

**DRIP (TRICKLE) CHEMIGATION (SOIL DRENCH USES)**

Meter Galigan H₂O at a continuous uniform rate during the middle one-third of the irrigation period to allow for uniform distribution to the soil surface. For best results, Galigan H₂O should be uniformly positioned across the wetted area to help reduce the "ring effect" of weed escapes as other products begin to break down around the emitter. Continue irrigation during the final one-third of the irrigation period to insure proper flushing of the irrigation system. To apply a pesticide using drip (trickle) chemigation, the chemigation system must meet the following specifications:

- The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pipe and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
CHEMIGATION CALIBRATION FOR LOW-VOLUME SPRINKLERS (MICROSPRINKLERS) AND DRIP (TRICKLE) IRRIGATION SYSTEMS

Calculation of use rate is based on wetted area around emitters — NOT on grove acres. To determine correct amount of Galigan H₂O₂, use the following formula:

1. Treated area per each emitter = A
   \[ A = \pi \times (\text{radius} \times \text{radius}) \]

   Example: If the average distance from emitter to perimeter of wetted area measured at the soil surface is 13 inches, then
   \[ A = 3.14 \times (13" \times 13") \]
   \[ A = 3.14 \times 169' \]
   \[ A = 530.7 \text{ square inches} \]

2. The area in square feet wet in each acre = B
   \[ B = \frac{A}{\pi} \]

   Example: If there are 300 emitters per acre, then
   \[ B = \frac{530.7 \times 300}{\pi} = 530.7 \text{ square feet wetted per acre} \]

3. The total area (in square feet) wet by your system = C
   \[ C = B \times \text{acres covered by system} \]

   Example: If the system covers 20 acres, then
   \[ C = 1105.6 \text{ square feet per acre} \times 20 \text{ acres} \]
   \[ C = 22,112 \text{ square feet wetted per system} \]

4. Amount of Galigan H₂O₂ to inject = S
   \[ S = C \times R = \text{quarts of Galigan H}_2\text{O}_2 \]

   Example: If the desired application rate per treated acre is 1 quart of Galigan H₂O₂, then
   \[ S = 22,112 \times 1.0 = 22,112 \text{ quarts of Galigan H}_2\text{O}_2 \text{ should be injected into system} \]

   \[ S = 43,560 \]

NOTE: Select the proper rate based on weed spectrum and length of control.

CHEMIGATION CALIBRATION FOR FLOOD (BASIN) IRRIGATION SYSTEMS

1. Determine acreage covered by flood irrigation.
2. Determine time required to irrigate area.
3. Fill metering solution tank with water and adjust flow rate to use contents over the predetermined time interval required.
4. Determine the amount of Galigan H₂O₂ required to treat area.
5. Add the recommended amount of Galigan H₂O₂ and water (if necessary) to bring solution to the amount required to apply the proper rate for the time interval established during calibration.
6. Meter Galigan H₂O₂ as recommended by label.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

If the chemigation system is connected to a public water supply, the following conditions must also be met:

- Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Upon completion of herbicide application, remove scale, pesticide residues, and other foreign matter from the supply tank and entire injector system. Flush thoroughly with clean water.

STORAGE AND DISPOSAL

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

STORAGE: Keep from freezing. Store above 32°F.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA regional office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

In case of spill, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spills.

To confine spill: Dike surrounding area or absorb with sand, cat litter, or uncommercial clay. Place damaged package in a holding container. Identify contents.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL INFOTRAC AT (800) 535-5053.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks 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 the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.’s election, the replacement of product.

* Denotes registered trademark.

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Galigan H₂O₂ (86222-140)(EPA app 03-22-07)