



COMPANY  
NUMBER 524

PRODUCT  
SERIAL NO. 326

LABEL  
APPROVAL 12.9.93  
DATE

PM 18 93

DEC - 9 1993

Dr. Shelia A. Schuette  
Monsanto Company  
700 14th Street, N.W., Suite 1100  
Washington, D.C. 20005

Dear Dr. Schuette:

Subject: Protocol Herbicide (Amended Label Text)  
EPA Registration No. 524-326  
Your Application Dated September 20, 1993

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

3. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of labeling is enclosed for your records.

Note that this labeling does not bear the required Worker Protection statements as outlined in PR Notices 93-7 and 93-11. We note that you have submitted labels in accordance with the instructions in those Notices. The new protective language in those submissions must be melded into this label for any shipments released after the deadlines that have been established. You may opt to do so immediately if you are electing the self-verification option, or after acceptance by the special Agency Worker Protection Standard review group. Finished printed labels should be submitted after acceptance by the WPS group and in accordance with their instructions.

Sincerely,

*UJW*  
Robert J. Taylor  
Product Manager 25  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

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DEC - 9 1993  
DEC - 9 1993

**Dr. Shelia A. Schuette**  
**Monsanto Company**  
**700 14th Street, N.W., Suite 1100**  
**Washington, D.C. 20005**

**Dear Dr. Schuette:**

**Subject: Protocol Herbicide (Revised Confidential Statement of Formula)**  
**EPA Registration No. 5244-326**  
**Your Application Dated October 8, 1993**

The scientific review and evaluation of the revised confidential statement of formula have been completed. The requested CSF is acceptable and our records have been modified accordingly.

**Sincerely,**

**Robert J. Taylor** <sup>UICW</sup>  
**Product Manager 25**  
**Fungicide-Herbicide Branch**  
**Registration Division (H7505C)**

DEC - 9 1993

**HONCHO®** [REDACTED]  
Herbicide

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

524-326

**Complete Directions for Use**

**AVOID CONTACT WITH FOLIAGE, GREEN STEMS, [REDACTED]  
OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY  
OR DESTRUCTION MAY RESULT.**

**©Henehe [REDACTED] is a registered trademark of Monsanto Company.**

**EPA Reg. No. 524-326**

**[REDACTED] 892-67-000-53/53**

**Read each of these sections of this label for essential product  
performance information.**

**USE THESE CONVENIENT SECTION MARKERS.**

**GENERAL INFORMATION**

**MIXING, ADDITIVES AND APPLICATION  
INSTRUCTIONS**

**WEEDS CONTROLLED**

**NONCROP USES**

**CROPPING SYSTEMS**

**MINIMUM TILLAGE**

**TREE AND VINE CROPS**

[REDACTED]

Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION IS PROHIBITED. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

**LIMIT OF WARRANTY AND LIABILITY**

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

**PRECAUTIONARY STATEMENTS**

Hazards to  
Humans and Domestic Animals

Keep out of reach of children.

**CAUTION!**  
MAY CAUSE EYE IRRITATION.

Avoid contact with eyes, skin or clothing.

Wash thoroughly with soap and water after handling.

**FIRST AID: IF IN EYES,** immediately flush with plenty of water for at least 15 minutes. Get medical attention.

**IF ON SKIN,** immediately flush with plenty of water. Wash clothing before reuse.

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

Environmental Hazards

Do not apply directly to water, or wetland (swamps, bogs, marshes or pecheles) or areas where surface water is present. Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT USING GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

ACTIVE INGREDIENT:

\*Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt ..... 41.5%

INERT INGREDIENTS:..... 58.5%  
100.0%

\*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient glyphosate in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.



Unless otherwise specified on this label, delay application until vegetation has emerged and reached the stages described for control of such vegetation under the "Weeds Controlled" section of this label. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow. For this reason, best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per acre within the recommended range when (1) weed growth is heavy or dense, or (2) weeds are growing in an undisturbed (noncultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Rainfall or irrigation occurring within 6 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of Heneke with herbicides or other materials that are not expressly recommended in this labeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Keep people and pets off treated areas until spray solution has dried to prevent transfer of this product onto desirable vegetation.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

**ATTENTION**

**AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.**

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation, since minute quantities of this product can cause severe damage or destruction to the crop, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. **AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.**

**NOTE:** Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

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**MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS**

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**APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES. DO NOT APPLY WHEN WIND OR OTHER CONDITIONS FAVOR DRIFT. HAND GUN APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS. NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS WATER FROM PONDS AND UNLINED DITCHES.**

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**MIXING**

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This product requires use with a nonionic surfactant. When using this product, mix 4 to 8 quarts (1 to 2 percent solution) of a nonionic surfactant per 100 gallons of spray solution. Use the 8-quart rate for any surfactant containing less than 50 percent active ingredient. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

Distributor supplemental labels will have one of the following paragraphs:

- Wilbur-Ellis recommends the use of at least an 80 percent active ingredient surfactant such as R-11® or similar type agricultural surfactant.
- However, whenever a nonionic surfactant is required, it is recommended that Activate Plus be used.
- It is recommended that Class® Spray Booster's, a nonionic surfactant, be used whenever a nonionic surfactant is specified.
- Wherever a nonionic surfactant is specified on this label, we recommend Loveland® LI700, Loveland® Activator 90, or

other premium quality 80 percent active (minimum) nonionic surfactant approved for use on growing crops.

- It is recommended that an 80 percent active nonionic, low foam spray adjuvant such as INDUCE™ be used.
- Always be sure to use a high quality nonionic surfactant like Cornbelt® Premier 90® or Cornbelt® Spray Activator 85.

R-11® is a registered trademark of Wilbur-Ellis Co.

Class® is a registered trademark of Cenex/Land O' Lakes Agronomy Co.

Loveland® is a registered trademark of Loveland Industries

Induce™ is a trademark of Helena Chemical Co.

Cornbelt® and Premier 90® are registered trademarks of Van Diest Supply Co.

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the recommended amount of this product (see "DIRECTIONS FOR USE" and "WEEDS CONTROLLED" sections of this label) and nonionic surfactant near the end of the filling process and mix well. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate bypass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

### TANK MIXTURES

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

Mix labeled tank mixtures of this product with water as follows:

1. Place a 20 to 35 mesh screen or wetting basket over filling port.
2. Through the screen, fill the sprayer tank one-half full with water and start agitation.
3. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.

- 6. Continue filling the sprayer tank with water and add the required amount of this product near the end of the filling process.
- 7. Add nonionic surfactant to the spray tank before completing the filling process.
- 8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive, water soluble liquid followed by surfactant.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground application equipment, use flat fan nozzles.

**CLEAN SPRAYER AND PARTS IMMEDIATELY AFTER USING THIS PRODUCT BY THOROUGHLY FLUSHING WITH WATER AND DISPOSE OF RINSATE ACCORDING TO LABELED USE OR DISPOSAL INSTRUCTIONS.**

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**ADDITIVES**

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**AMMONIUM SULFATE**

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product and this product plus 2,4-D, Banvel™ or residual herbicide tank mixtures on annual and perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Low-quality ammonium sulfate may contain material that will not readily dissolve which could result in nozzle tip plugging. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, predissolve the ammonium sulfate in water and filter prior to addition to the spray tank. If ammonium sulfate is added directly to the spray tank, add slowly with agitation. Adding too quickly may clog outlet lines. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides or surfactant. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

**NOTE:** The use of ammonium sulfate as an additive does not preclude the need for surfactant. Do not use herbicide rates lower than recommended in this label.

~~™Banvel is a trademark of Sandoz, Inc.~~

**COLORANTS OR DYES**

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Agriculturally approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions. Use colorants or dyes according to manufacturer's recommendations.

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### APPLICATION EQUIPMENT AND TECHNIQUES

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Do not apply this product through any type of irrigation system.

This product may be applied with the following application equipment:

**Aerial - Fixed Wing and Helicopter**

**Broadcast Spray**

**Controlled Droplet Application (CDA)** - Hand-held or boom-mounted applicators which produce a spray consisting of a narrow range of droplet sizes.

**Hand-held and High-Volume Spray Equipment** - Knapsack and backpack sprayers, pump-up pressure sprayers, hand guns, handwands, lances and other hand-held spray equipment used to direct the spray onto weed foliage, and vehicle-mounted, high-volume spray equipment for spray-to-wet applications.

**Selective Equipment** - Recirculating sprayers, shielded sprayers and wiper applicators.

See the appropriate part of this section for specific rates of application and instructions.

#### AERIAL EQUIPMENT

Use the recommended rates of this product in 3 to 15 gallons of water per acre unless otherwise specified on this label. See the "WEEDS CONTROLLED" section of this label for specific rates. Unless otherwise specified, do not exceed one quart per acre. (Aerial applications of this product may be made in annual cropping conventional tillage systems, fallow and reduced tillage systems, preharvest, silvicultural sites, and rights-of-way. Refer to the individual use area sections of this label for recommended volumes and application rates.) FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

~~This product plus Oust tank mixtures may not be applied by air in California.~~

Avoid direct application to any body of water.

**AVOID DRIFT - DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.**

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

**Ensure uniform application - To avoid streaked, uneven or overlapped application, use appropriate marking devices.**

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. **PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE.** The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

~~This product plus dust, Banvel, N. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000~~

**BROADCAST EQUIPMENT**

For control of annual or perennial weeds listed on this label using broadcast equipment - Use the recommended rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified on this label. See the "WEEDS CONTROLLED" section of this label for specific rates. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzle to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

**CONTROLLED DROPLET APPLICATION (CDA)**

The rate of this product applied per acre by vehicle-mounted CDA equipment must not be less than the amount recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 3 to 15 gallons of water per acre.

For the control of labeled annual weeds with hand-held CDA units, apply a 20 percent solution of this product plus a 5 percent solution of nonionic surfactant at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 MPH (1 quart per acre). For the control of labeled perennial weeds, apply a 20 to 40 percent solution of this product plus a 5 to 10 percent solution of

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nonionic surfactant at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 mph (2 to 4 quarts per acre).

Controlled droplet application equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation as damage or destruction may result.

**HAND-HELD and  
HIGH-VOLUME EQUIPMENT**

Use coarse sprays only.

Mix this product in clean water and apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff.

For control of annual weeds listed on this label, apply 0.5 percent solution of this product plus nonionic surfactant to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grasses or bud formation in broadleaf weeds. Allow three or more days before tillage or mowing.

For annual weeds over 6 inches tall, or unless otherwise specified, use a 1 percent solution. For best results, use a 2 percent solution on harder-to-control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

~~Less than complete coverage of weeds may result from the use of spray equipment designed for motorized spot treatments. Where less than complete coverage of annual weeds occurs, use a 5 percent solution. Do not reduce recommended concentrations of this product when adding surfactant.~~

~~When using application methods which result in less than complete coverage, use a 5 percent solution for annual and perennial weeds and a 2 to 3 percent solution for woody brush and trees.~~

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

**Spray Solution**

DESIRED VOLUME	AMOUNT OF HONCHOO					
	1/2%	1%	1-1/2%	2%	5%	
1 gallon	2/3 oz	1-1/3 oz	2 oz	2-2/3 oz	6-1/2 oz	
25 gallons	1 pt	1 qt	1-1/2 qt	2 qt	5 qt	
100 gallons	2 qt	1 gal	1-1/2 gal	2 gal	5 gal	

2 tablespoons = 1 fluid ounce

Add surfactant at a rate of 1 to 2 oz. per gallon of spray mix.

For use in knapsack sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution and add the correct amount of surfactant.

**SELECTIVE EQUIPMENT**

This product may be applied through a recirculating spray system, a shielded applicator, or a wiper applicator after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label and only when specifically recommended in cropping systems.

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation, while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide.

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

**AVOID CONTACT WITH DESIRABLE VEGETATION.**

Contact of the herbicide solution with the desirable vegetation may result in damage or destruction. Applicators used above desired vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least two inches above the desirable vegetation. Droplets, mist, foam, or splatter of the herbicide solution settling on desirable vegetation may result in discoloration, stunting, or destruction.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

~~See the "Weeds Controlled" section of this label for recommended stage of growth for specific weeds.~~

**NOTE**

~~Maintain equipment in good operating condition. Avoid leakage or dripping onto desirable vegetation.~~

~~Adjust height of applicator to ensure adequate contact with weeds.~~

~~Keep nozzle tips and wiping surfaces clean.~~

- ~~• Keep spray patterns aligned into recovery chamber of the recirculating sprayer.~~
- ~~• Keep shields on shielded applicators adjusted to protect desirable vegetation.~~
- ~~• Maintain recommended roller RPM on roller applicators while in use.~~
- ~~• Keep wiper material at proper degree of saturation with herbicide solution.~~
- ~~• DO NOT use wiper equipment when weeds are wet.~~
- ~~• DO NOT operate equipment at ground speeds greater than 5 mph. Weed control may be affected by speed of application equipment. As weed density increases, reduce equipment ground speed to ensure good coverage of weeds.~~
- ~~• Be aware that on sloping ground the herbicide solution may migrate, causing dripping on the lower end and drying on the upper end of a wiper applicator.~~
- ~~• Variation in equipment design may affect weed control. With wiper applicators, the wiping material and its orientation must allow delivery of sufficient quantities of the recommended herbicide solution directly to the weed.~~
- ~~• Care must be taken with all types of wipers to ensure that the absorbent material does not become oversaturated, causing the herbicide to drip on desirable vegetation.~~
- ~~• Mix only the amount of solution to be used during a one-day period, as reduced activity may result from use of leftover solutions. With all equipment, drain and clean sprayer and wiper parts immediately after using this product by thoroughly flushing with water.~~

**RECIRCULATING SPRAYERS**

~~Recirculating sprayer calibration is made on the basis of ground speed and delivery volume. Two procedures can be used to calibrate: (1) determining the discharge being delivered per minute, then operate at the designated ground speed, or (2) select the desired ground speed and then adjust the sprayer to deliver the recommended volume per minute (this may require nozzle changes). Use the appropriate time table below.~~

~~Do not operate at nozzle pressure above 20 PSI.~~

~~Table 1. Use this table when calibrating box or row type recirculating sprayers. Box or row type sprayer calibration is based on the total discharge collected per row.~~

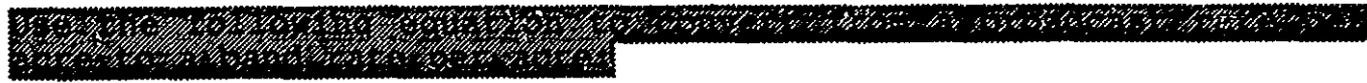
~~Use only straight stream or 15° fan type nozzles.~~



### SHIELDED APPLICATORS

When applied as directed under conditions described for shielded applicators, this product will control those weeds listed in the "WEEDS CONTROLLED" section of this label.

~~Shielded applicators which apply the herbicide solution as a spray band should be calibrated on a broadcast equivalent rate and volume basis. To determine these:~~



<u>Band width</u> in inches	X	Herbicide broadcast RATE per acre	=	Herbicide band RATE per acre
<u>Row width</u> in inches				
<u>Band width</u> in inches	X	Broadcast VOLUME of solution per acre	=	Band VOLUME of solution per acre
<u>Row width</u> in inches				

Use nozzles that provide uniform coverage within the treated area.  
~~Keep shielded applicators away from desirable vegetation.~~  
**EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT WITH DESIRABLE VEGETATION.**

For specific rates of application and instructions for control of various annual and perennial weeds, see the "WEEDS CONTROLLED" section of this label.

### WIPER APPLICATORS

Wiper applicators ~~include either roller or wick devices which physically wipe appropriate concentrations or amounts of this product directly onto the weed.~~

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if ~~two~~ applications are made in opposite directions.

~~For Roller Applicators - Mix 1 gallon of this product in enough water to prepare 10 gallons of herbicide solution (10 percent solution). Apply this solution to perennial weeds or annual broadleaf weeds listed in this "Wiper Applicators" section.~~

~~Mix 1 gallon of this product in enough water to provide 20 gallons of herbicide solution (5 percent solution). Apply this solution to annual grasses listed in this "Wiper Applicators" section.~~

~~Roller speed should be maintained at 40 to 60 RPM.~~

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

Do not use wiper equipment when weeds are wet.

Mix only the amount of solution to be used during a 1-day period, as reduced activity may result from use of leftover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

**For Wick or Wiper Rope or Sponge Wick Applicators** - Mix 1 gallon of this product in 2 gallons of water plus 1 quart nonionic surfactant to prepare a 33 percent solution. Apply this solution to weeds listed in this "WIPER APPLICATORS" section.

**For Porous Plastic Applicators** - Solutions ranging from 33 to 100 percent of this product in water may be used in porous-plastic wiper applicators. Add 1 quart of a nonionic surfactant for every 1 gallon of solution.

~~In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.~~

~~Do not permit herbicide solution to contact desirable vegetation.~~

When applied as recommended under the conditions described for "WIPER APPLICATORS", this product CONTROLS the following weeds:

**ANNUAL GRASSES**

- |  |                                       |
|--|---------------------------------------|
| Corn<br><i>Zea mays</i>                  | Rye, common<br><i>Secale cereale</i>  |
| Panicum, Texas<br><i>Panicum texanum</i> | Shattercane<br><i>Sorghum bicolor</i> |

**ANNUAL BROADLEAVES**

- Sicklepod  
*Cassia obtusifolia*
- Spanishneedles  
*Bidens bipinnata*
- Starbur, bristly  
*Acanthospermum hispidum*

When applied as recommended under the conditions described for "WIPER APPLICATORS", this product SUPPRESSES the following weeds:

**ANNUAL BROADLEAVES**

- Beggarweed, Florida

**Desmodium  
tortuosum**

**Dogfennel  
Eupatorium  
capilliflorum**

**Figweed, redroot  
Amaranthus  
retroflexus**

**Ragweed, common  
Ambrosia artemisiifolia**

**Ragweed, giant  
Ambrosia trifida**

**Sunflower  
Helianthus annuus**

**Thistle, musk  
Carduus nutans**

**Velvetleaf  
Abutilon theophrasti**

**PERENNIAL GRASSES**

**Bermudagrass  
Cynodon dactylon**

**Guineagrass  
Panicum maximum**

**Johnsongrass  
Sorghum halepense**

**Smutgrass  
Sporobolus poiretii**

**Vaseygrass  
Paspalum urvillei**

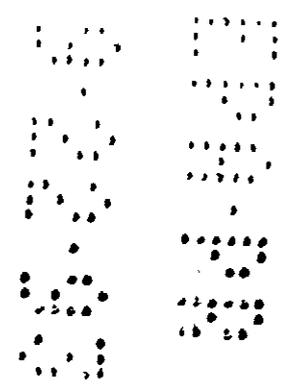
**PERENNIAL BROADLEAVES**

**Dogbane, hemp  
Apocynum cannabinum**

**Milkweed  
Asclepias syriaca**

**Nightshade, silverleaf  
Solanum elaeagnifolium**

**Thistle, Canada  
Cirsium arvense**



**WEEDS CONTROLLED**

This herbicide controls many annual and perennial grasses and broadleaf weeds.

**ANNUAL WEEDS**

- Apply to actively growing grass and broadleaf weeds.
- Allow at least 3 days after treatment before tillage.
- For maximum agronomic benefit, apply when weeds are 6 inches or less in height.
- To prevent seed production, applications should be made prior to seedhead formation.
- This product does not provide residual control; therefore, delay application until maximum weed emergence. Repeat treatments may be necessary to control later germinating weeds.

**LOW-VOLUME BROADCAST APPLICATION  
(LOW-RATE TECHNOLOGY)**

When applied as directed under the conditions described, this product will control the weeds listed below when water carrier volumes of 3 to 10 gallons per acre for ground applications and 3 to 5 gallons per acre for aerial applications are recommended. (See the "AERIAL EQUIPMENT" section of this label for approved sites.)

**NOTE**

- The addition of 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water may increase the performance of this product on annual weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" section of this label.
- Do not tank-mix with soil-residual herbicides when using these rates unless otherwise specified.
- For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.
- Refer to the "TANK MIXTURES" portion of this section for control of additional broadleaf weeds.

WEED SPECIES	MAXIMUM HEIGHT/LENGTH	RATE PER ACRE (FLUID OUNCES)
Foxtail Setaria spp.	12"	8 oz.

Barnyardgrass  
*Echinochloa*  
*crus-galli*

6"  
(0 to 4"  
(4 to 6"

12 oz.  
16 oz.<sup>1)</sup>  
24 oz.<sup>1)</sup>

Bluegrass, annual  
*Poa annua*

Brome, downy<sup>1)</sup>  
*Bromus tectorum*

Mustard, blue  
*Chorispora tenella*

Mustard, tansy  
*Descurainia pinnata*

Mustard, tumble  
*Sisymbrium altissimum*

Mustard, wild  
*Sinapis arvensis*

Spurry, umbrella  
*Holosteum*  
*umbellatum*

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Barley  
*Hordeum vulgare* 12"

Rye  
*Secale cereale*

Sandbur, field  
*Cenchrus spp.*

Shattercane  
*Sorghum bicolor*

Stinkgrass  
*Eragrostis*  
*cilianensis*

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Wheat  
*Triticum aestivum* 18"

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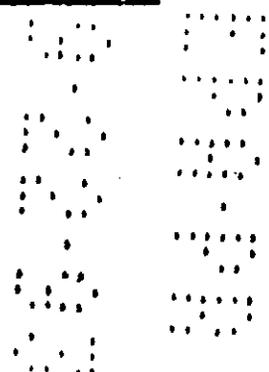
Morningglory  
*Ipomoea spp.* 2" 16 oz.

Sicklepod  
*Cassia obtusifolia*

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Bluegrass, bulbous  
*Poa bulbosa* 6"

Cheat  
*Bromus secalinus*



**Chickweed, common**  
*Stellaria media*

**Chickweed, mouseear**  
*Cerastium vulgatum*

**Corn**  
*Zea mays*

**Goatgrass, jointed**  
*Aegilops cylindrica*

**Groundsel, common**  
*Senecio vulgaris*

**Horseweed/Marestail**  
*Conyza canadensis*

**Lambsquarters, common**  
*Chenopodium album*

**Pennycress, field**  
(Fanweed)  
*Thlaspi arvense*

**Rocket, London**  
*Sisymbrium irio*

**Ryegrass, Italian**  
*Lolium multiflorum*

**Shepherdspurse**  
*Capsella bursa-pastoris*

**Spurge, annual**  
*Euphorbia spp.*

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**Buttercup**  
*Ranunculus spp.* 12"

**Cocklebur**  
*Xanthium*  
*strumarium*

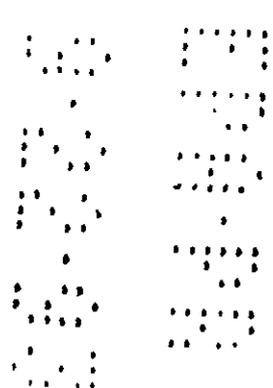
**Crabgrass**  
*Digitaria spp.*

**Dwarf dandelion**  
*Krigia cespitosa*

**Falseflax, smallseed**  
*Camelina microcarpa*

**Foxtail, Carolina**  
*Alopecurus*  
*carolinianus*

**Johnsongrass, seedling**



**Sorghum halepense**

**Oats, wild**  
*Avena fatua*

**Panicum, fall**  
*Panicum*  
*dichotomiflorum*

**Panicum, Texas**  
*Panicum texanum*

**Pigweed, redroot**  
*Amaranthus*  
*retroflexus*

**Pigweed, smooth**  
*Amaranthus hybridus*

**Witchgrass**  
*Panicum capillare*

---

**Sicklepod** 3 to 4" 24 oz  
*Cassia obtusifolia*

**Signalgrass, broadleaf**  
*Brachiaria*  
*platyphylla* 4"

---

**Horseweed/Marestail** 7 to 12"  
*Conyza canadensis*

**Lambsquarters, common**  
*Chenopodium album*

**Spurge, annual**  
*Euphorbia spp.*

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**Rice, red** 4" 32 oz.  
*Oryza sativa*

**Teaweed**  
*Sida spinosa*

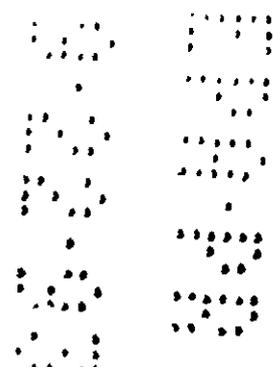
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**Sprangletop** 6"  
*Leptochloa spp.*

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**Geranium, Carolina** 12"  
*Geranium*  
*carolinianum*

**Goosegrass**  
*Eleusine indica*



Primrose, cutleaf  
evening  
*Oenothera laciniata*

Pusley, Florida  
*Richardia scabra*

Sicklepod 5 to 12"  
*Cassia obtusifolia*

Spanishneedles  
*Bidens bipinnata*

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Filaree 12" 48 oz.  
*Erodium spp.*

Sprangletop  
*Leptochloa spp.*

---

Use these rates to control barnyardgrass in Alabama, Arkansas, Mississippi, Louisiana, Missouri and Texas for preplant treatments.

~~\* For control in no-till systems, use 16 fluid ounces per acre.~~

\*\* For those rates less than 32 fluid ounces per acre, this product at rates up to 32 fluid ounces per acre may be used where heavy weed densities exist.



**TANK MIXTURES**

**HONCHO ~~PROTOCOL~~ plus BANVEL  
plus ~~NONIONIC SURFACTANT~~**

**HONCHO ~~PROTOCOL~~ plus 2,4-D  
plus ~~NONIONIC SURFACTANT~~**

DO NOT APPLY BANVEL OR 2,4-D TANK MIXTURES BY AIR IN CALIFORNIA.

These tank mixtures are recommended for use in fallow and reduced tillage areas only. Follow use directions as given in this "LOW-VOLUME BROADCAST APPLICATION" section.

This product plus Banvel or 2,4-D will control the annual grasses and broadleaf weeds previously listed for this product alone at the indicated heights (except 8 fluid ounces per acre applications), plus the following broadleaf weeds. For those weeds previously listed at 8 fluid ounces of this product alone per acre, use 12 fluid ounces in these tank mixtures.

NOTE: Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if Banvel is applied within 45 days of planting. The addition of Banvel in a mixture

with this product may provide short-term residual control of selected weed species.

Apply 12 to 16 fluid ounces of this product plus 0.25 lb. a.i. of Banvel or 0.5 pound a.i. of 2,4-D per acre to control dense populations of the following annual broadleaf weeds when less than the height indicated:

**Cocklebur (12")**  
*Xanthium strumarium*

**Kochia\* (6")**  
*Kochia scoparia*

**Lambsquarters (12")**  
*Chenopodium album*

**Lettuce, prickly (6")**  
*Lactuca serriola*

**Marestail/Horseweed (6")**  
*Conyza canadensis*

**Morningglory (6")**  
*Ipomoea spp.*

**Pigweed, redroot (12")**  
*Amaranthus retroflexus*

**Pigweed, smooth (12")**  
*Amaranthus hybridus*

**Thistle, Russian (12")**  
*Salsola kali*

\*Controlled with Banvel tank mixture only.

Apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D per acre to control the following annual broadleaf weeds when less than 6 inches in height.

**Ragweed, common**  
*Ambrosia artemisiifolia*

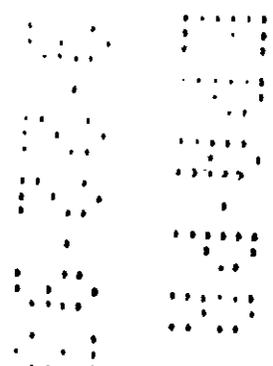
**Ragweed, giant**  
*Ambrosia trifida*

**Smartweed, Pennsylvania**  
*Polygonum pensylvanicum*

**Velvetleaf**  
*Abutilon theophrasti*

**HIGH-VOLUME BROADCAST APPLICATIONS**

When applied as directed under the conditions described, this product will control the weeds listed below when water carrier volumes are 10 to 40 gallons per acre for ground applications.



Use 1 quart of this product per acre if weeds are less than 6 inches tall. If weeds are over 6 inches tall, use 1.5 quarts of this product per acre. If weeds have been mowed, grazed or cut, allow adequate time for new growth to [redacted] recommended stages prior to treatment. These rates will also provide control of weeds listed in the 'LOW-VOLUME BROADCAST APPLICATION' section.

**WEED SPECIES**

**Balsamapple\***

*Momordica charantia*

**Bassia, fivehook**

*Bassia hyssopifolia*

**Brome**

*Bromus spp.*

**Fiddleneck**

*Amsinckia spp.*

**Fleabane, hairy**

*Conyza bonariensis*

**Fleabane**

*Erigeron spp.*

**Kochia**

*Kochia scoparia*

**Lettuce, prickly**

*Lactuca serriola*

**Panicum**

*Panicum spp.*

**Ragweed, common**

*Ambrosia artemisiifolia*

**Ragweed, giant**

*Ambrosia trifida*

**Smartweed, Pennsylvania**

*Polygonum  
pennsylvanicum*

**Sowthistle, annual**

*Sonchus oleraceus*

**Sunflower**

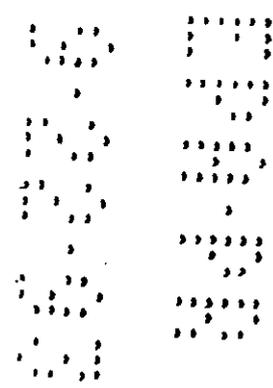
*Helianthus annuus*

**Thistle, Russian**

*Salsola kali*

**Velvetleaf**

*Abutilon theophrasti*



\*Apply with hand-held equipment only.

**PERENNIAL WEEDS**

Apply this product as follows to control or destroy most perennial weeds:

NOTE: If weeds have been mowed or tilled, do not treat until plants have resumed active growth and have reached the recommended stages of growth.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product on perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" section of this label.

When applied as recommended under the conditions described, this product WILL CONTROL the following PERENNIAL WEEDS:

**Alfalfa**  
*Medicago sativa*

**Alligatorweed\***  
*Alternanthera philoxeroides*

**Artichoke, Jerusalem**  
*Helianthus tuberosus*

**Bahiagrass**  
*Paspalum notatum*

**Bentgrass**  
*Agrostis spp.*

**Bermudagrass**  
*Cynodon dactylon*

**Bermudagrass, water (knotgrass)**  
*Paspalum distichum*

**Bindweed, field**  
*Convolvulus arvensis*

**Bluegrass, Kentucky**  
*Poa spp.*

**Blueweed, Texas**  
*Helianthus ciliaris*

**Brackenfern**  
*Pteridium aquilinum*

**Bromegrass, smooth**  
*Bromus inermis*

**Bursage, woollyleaf**  
*Franseria tomentosa*

**Canarygrass, reed**  
*Phalaris arundinacea*

**Cattail**  
*Typha spp.*

**Clover, red**  
*Trifolium pratense*

**Clover, white**  
*Trifolium repens*

**Cogongrass**  
*Imperata cylindrica*

**Dallisgrass**  
*Paspalum dilatatum*

**Dandelion**  
*Taraxacum officinale*

**Dock, curly**  
*Rumex crispus*

**Dogbane, hemp**  
*Apocynum cannabinum*

**Fescues**  
*Festuca spp.*

**Fescue, tall**  
*Festuca arundinacea*

**Guineagrass**  
*Panicum maximum*

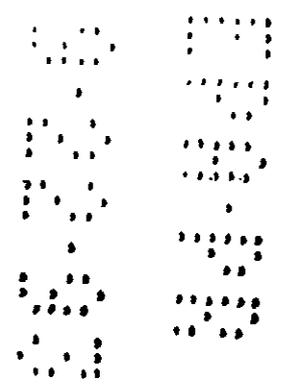
**Horsenettle**  
*Solanum carolinense*

**Horseradish**  
*Armoracia rusticana*

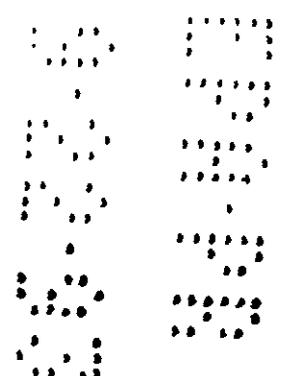
**Johnsongrass**  
*Sorghum halepense*

**Kikuyugrass**  
*Pennisetum clandestinum*

**Knapweed**  
*Centaurea repens*



- Lantana**  
*Lantana camara*
- Milkweed**  
*Asclepias spp.*
- Muhly, wirestem**  
*Muhlenbergia frondosa*
- Mullein, common**  
*Verbascum thapsus*
- Napiergrass**  
*Pennisetum purpureum*
- Nightshade, silverleaf**  
*Solanum elaeagnifolium*
- Nutsedge: purple, yellow**  
*Cyperus rotundus*  
*Cyperus esculentus*
- Orchardgrass**  
*Dactylis glomerata*
- Pampas**  
*Cortaderia jubata*
- Paragrass**  
*Brachiaria mutica*
- Phragmites\***  
*Phragmites spp.*
- Quackgrass**  
*Agropyron repens*
- Redvine\***  
*Brunnichia ovata*
- Reed, giant**  
*Arundo donax*
- Ryegrass, perennial**  
*Lolium perenne*
- Smartweed, swamp**  
*Polygonum coccineum*
- Spurge, leafy\***  
*Euphorbia esula*
- Sweet potato, wild\***  
*Ipomoea pandurata*
- Thistle, Canada**  
*Cirsium arvense*



**Timothy**  
*Phleum pratense*

**Torpedograss\***  
*Panicum repens*

**Trumpet creeper\***  
*Campsis radicans*

**Vaseygrass**  
*Paspalum urvillei*

**Wheatgrass, western**  
*Agropyron smithii*

\*Partial control



**Alfalfa** - Apply 1 quart of this product in 3 to 10 gallons of water per acre. Make application after last hay cutting in the fall. Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil freeze-up.

**Alligatorweed** - Apply 4 quarts of this product per acre or apply a 1-1/2 percent solution with hand-held equipment to provide partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain such control.

**Bentgrass** - For suppression in grass seed production areas. For ground applications only, apply 1.5 quarts of this product in 10 to 20 gallons of water per acre. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should have at least 3 inches of growth. Tillage prior to treatment should be avoided. Tillage 7 to 10 days after application is recommended for best results. Failure to use tillage after treatment may result in unacceptable control.

**Bermudagrass** - For control, apply 5 quarts of this product per acre and, for partial control, apply 3 quarts per acre. Treat when bermudagrass is actively growing and seedheads are present. Retreatment may be necessary to maintain control. Allow 7 or more days after application before tillage.

**Bermudagrass, water (knotgrass)** - Apply 1.5 quarts of this product in 5 to 10 gallons of water per acre. Apply when water bermudagrass is actively growing and 12 to 18 inches in length. Allow 7 or more days before tilling, flushing or flooding the field.

**Fall applications only** - Apply 1 quart of this product in 5 to 10 gallons of water per acre. Fallow fields should be tilled prior to application. Apply prior to frost on water bermudagrass that is actively growing and 12 to 18 inches in length. Allow 7 or more days before tillage.

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**Bindweed, field** - For control, apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts east of the Mississippi River. Apply when the weeds are actively growing and are at or beyond full bloom. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Also for control, apply 2 quarts of this product plus 0.5 pound a.i. of Banvel in 10 to 20 gallons of water per acre. At these rates, apply using ground application only.

~~The following tank mixtures with 2,4-D may be applied using aerial application equipment (except in California) in fallow and reduced tillage systems only.~~

For suppression on irrigated agricultural land apply 1 to 2 quarts of this product plus 1 pound a.i. of 2,4-D in 10 to 20 gallons of water per acre with ground equipment only. Applications should be made following harvest or on fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length. The use of at least one irrigation will promote active bindweed growth.

For suppression, apply 16 fluid ounces of this product plus 0.5 pounds a.i. of 2,4-D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length.

**In California only**, apply 1 to 5 quarts of this product per acre. Actual rate needed for suppression or control will vary within this range depending on local conditions. ~~Also, for more specific use recommendations for California refer to the following paragraph:~~

For suppression on irrigated land where annual tillage is performed, apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to actively growing bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth. Allow 3 or more days after application before tillage.

**Bluegrass, Kentucky / Bromegrass, smooth / Orchardgrass** - Apply 2 quarts of this product in 10 to 40 gallons of water per acre when the grasses are actively growing and most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1-1/2 quarts of this product in 5 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height. Allow 7 or more days after application before tillage.

~~Orchardgrass (seeds going to no-till corn) - Apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to~~

...that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications. Allow at least 7 days following application before planting. A sequential application of atrazine will be necessary for optimum results.

**Bluneweed, Texas** - Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. Apply when weed is actively growing and is at or beyond full bloom. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

**Brackenfern** - Apply 3 to 4 quarts of this product per acre as a broadcast spray or as a 1 to 1-1/2 percent solution with hand-held equipment. Apply to fully expanded fronds which are at least 18 inches long.

**Bursage, woollyleaf** - For control, apply 2 quarts of this product plus 1 pint of Banvel per acre. For partial control, apply 1 quart of this product plus 1 pint of Banvel per acre. Apply 13 to 20 gallons of water per acre. Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering.

**Canarygrass, reed / Timothy / Wheatgrass, western** - Apply 2 to 3 quarts of this product per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage.

**Cogongrass** - Apply 3 to 5 quarts of this product in 10 to 40 gallons of water per acre. Apply when cogongrass is at least 18 inches tall and actively growing in late summer or fall. Allow 7 or more days after application before tillage or mowing. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.

**Dandelion/Dock, curly** - Apply 3 to 5 quarts of this product per acre when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Also for control, apply 16 fluid ounces of this product plus 0.5 pounds a.i. 2,4-D ~~plus 0.5 to 1 percent nonionic surfactant by total spray volume~~ in 3 to 10 gallons of water per acre.

**Dogbane, hemp** - Apply 4 quarts of this product per acre. Apply when actively growing and when most weeds have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall. Allow 7 or more days after application before tillage.

For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D plus ~~0.5 to 1 percent nonionic surfactant by total spray volume~~ in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Delay applications until maximum emergence of dogbane has occurred.

**Fescue, tall** - Apply 3 quarts of this product in 10 to 40 gallons of water per acre to actively growing plants when most have reached boot-to-early seedhead stage of development.

**Fall applications only** - Apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to fescue in the fall when actively growing and plants have 6 to 12 inches of new growth. Allow 7 or more days after application before tillage. A sequential application of 1 pint per acre of this product will improve long-term control and control seedlings germinating after fall treatments or the following spring.

**Guineagrass** - Apply 3 quarts of this product per acre or use a 1 percent solution with hand-held equipment. Apply to actively growing guineagrass when most have reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment: Allow 7 or more days after application before tillage.

**Johnsongrass / Ryegrass, perennial** - Apply 1 to 3 quarts of this product per acre. In annual cropping systems, apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage (no-till) is not performed, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage. Do not tank-mix with residual herbicides when using the 1 quart per acre rate.

For burndown of Johnsongrass, apply 1 pint per-acre in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before tillage.

**Spot treatment** (partial control or suppression) - Apply a 1 percent solution of this product when Johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.

**Kikuyugrass** - Apply 2 to 3 quarts of this product per acre. Spray when most kikuyugrass is at least 8 inches in height (3 or 4-leaf stage of growth) and actively growing. Allow 3 or more days after application before tillage.

**Knapweed/Horseradish** - Apply 4 quarts of this product per acre. Apply when actively growing and when most weeds have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall. Allow 7 or more days after application before tillage.



~~and most are less than 6 inches tall. Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants. Wait 7 days after treatment before tillage or mowing.~~

**Pampas** - Apply this product as a 1-1/2 to 2 percent solution using hand-held equipment. Apply to plants that are actively growing at or beyond the boot stage of growth. Thorough coverage is necessary for best control.

**Phragmites** - For partial control of phragmites in Florida and the counties of other states bordering the Gulf of Mexico, apply 5 quarts per acre as a broadcast spray or apply a 2 percent solution from hand-held equipment. In other areas of the U.S., apply 3 quarts per acre as a broadcast spray or apply a 1 percent solution from hand-held equipment for partial control. For best results, treat during late summer or fall months or when plants are actively growing and in full bloom. Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.

**Quackgrass - In Annual Cropping Systems, or in Pastures and Sods Followed by Deep Tillage:** Apply 1 to 2 quarts of this product per acre. For the one quart rate, apply in 3 to 10 gallons of water per acre. For the 2 quart rate, apply in 10 to 40 gallons of water per acre. Do not tank mix with residual herbicides when using the 1 quart rate. Spray when quackgrass is 8 to 12 inches in height and actively growing. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, ~~for best results use a moldboard plow~~

**Quackgrass - Pasture or Sod or Other Noncrop Areas Where Deep Tillage is Not Planned Following Application:** Apply 2 to 3 quarts in 10 to 40 gallons of water per acre. Spray when the quackgrass is greater than 8 inches tall and actively growing. Do not till between harvest and fall application or in fall or spring prior to spring application. Allow 3 or more days after application before tillage.

**Redvine** - For suppression, apply 24 fluid ounces of this product per acre at each of two applications 7 to 14 days apart or a single application of 2 quarts per acre. Apply recommended rates in 5 to 10 gallons of water per acre. Apply ~~late September or early October~~ to actively growing plants, ~~in late September or early October~~, which are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least one week before a killing frost.

**Reed, giant** - For control of giant reed, apply a 2 percent solution of this product when plants are actively growing. Best results are obtained when applications are made in late summer to fall.

**Smartweed, swamp** - Apply 3 to 5 quarts of this product per acre when plants are actively growing and most have reached the early

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bud stage of growth. Allow 7 or more days after application before tillage.

Also for control, apply 16 fluid ounces of this product plus 0.5 pound active-ingredient ~~XXXX~~ of 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing and most have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

**Spurge, leafy** - For suppression, apply 16 fluid ounces of this product plus 0.5 pound active-ingredient ~~XXXX~~ 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. Apply when plants are actively growing. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall. Allow 7 or more days after application before tillage.

**Sweet Potato, wild** - Apply this product as a 2 percent solution using hand-held equipment. Apply to actively growing weeds that are at or beyond the bloom stage of growth. Repeat applications will be required. Allow the plant to reach the recommended stage of growth before retreatment. Allow 7 or more days before tillage.

**Thistle, Canada** - Apply 2 to 3 quarts of this product per acre. Apply to actively growing thistles when most are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.

For suppression of Canada thistle, apply 1 quart of this product, or 1 pint of this product plus 0.5 pounds a.i. 2,4-D, in 3 to 10 gallons of water per acre in the late summer or fall after harvest, mowing or tillage. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.

**Torpedograss** - Apply 4 to 5 quarts of this product per acre to provide partial control of torpedograss. Apply to actively growing torpedograss when most plants are at or beyond the seedhead stage of growth. Repeat applications will be required to maintain control. Fall treatments must be applied before frost. Allow 7 or more days after application before tillage.

**Trumpet creeper** - For control, apply 2 quarts of this product in 5 to 10 gallons of water per acre. Apply in late September or October to actively growing plants which are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.

**Other perennials listed on this label** - Apply 3 to 5 quarts of this product per acre. Apply when actively growing and most have reached early head or early bud stage of growth. Allow 7 or more days after application before tillage.

WOODY BRUSH AND TREES

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When applied as recommended under the conditions described, this product CONTROLS or PARTIALLY CONTROLS the following woody brush, plants and trees:

**Alder**

*Alnus spp.*

**Ash\***

*Fraxinus spp.*

**Aspen, quaking**

*Populus tremuloides*

**Bearmat (Bearclover)**

*Chamaebatia foliolosa*

**Birch**

*Betula spp.*

**Blackberry**

*Rubus spp.*

**Broom:**

**French**

*Cytisus*

*monspessulanus*

**Scotch**

*Cytisus scoparius*

**Buckwheat, California\***

*Eriogonum fasciculatum*

**Cascara\***

*Rhamnus purshiana*

**Catsclaw\***

*Acacia greggi*

**Ceanothus\***

*Ceanothus spp.*

**Chamise**

*Adenostoma*

*fasciculatum*

**Cherry:**

**Bitter**

*Prunus emarginata*

**Black**

*Prunus serotina*

**Pin**

*Prunus pensylvanica*

**Coyote brush**  
*Baccharis consanguinea*

**Creeper, Virginia\***  
*Parthenocissus*  
*quinquefolia*

**Dewberry**  
*Rubus trivialis*

**Elderberry**  
*Sambucus spp.*

**Elm\***  
*Ulmus spp.*

**Eucalyptus, blue gum**  
*Eucalyptus globulus* 

**Hasardia\***  
*Haplopappus squamosus*

**Hawthorn**  
*Crataegus spp.*

**Hazel**  
*Corylus spp.*

**Honeysuckle**  
*Lonicera spp.*

**Kudzu**  
*Pueraria lobata*

**Locust, black\***  
*Robinia pseudoacacia*

**Madrone**  
*Arbutus menziesii*

**Manzanita**  
*Arctostaphylos spp.*

**Maple:**  
**Red\*\***  
*Acer rubrum*

**Sugar**  
*Acer saccharum*

**Vine\***  
*Acer circinatum*

**Monkey Flower\***  
*Mimulus guttatus*

**Oak:**  
**Black\***

**Quercus velutina**

**Northern Pin**  
**Quercus palustris**

**Post**  
**Quercus stellata**

**Red**  
**Quercus rubra**

**Southern Red**  
**Quercus falcata**

**White\***  
**Quercus alba**

**Persimmon\***  
**Diospyros spp.**

**Poison Ivy**  
**Rhus radicans**

**Poison Oak**  
**Rhus toxicodendron**

**Poplar\*, yellow**  
**Liriodendron tulipifera**

**Raspberry**  
**Rubus spp.**

**Rose, multiflora**  
**Rosa multiflora**

**Russian-olive**  
**Eleagnus angustifolia**

**Sage, black**  
**Salvia mellifera**

**Sagebrush, California**  
**Artemisia californica**

**Salmonberry**  
**Rubus spectabilis**

**Sassafras**  
**Sassafras albidum**

**Sourwood**  
**Oxydendrum arboreum**

**Sumac:**  
**Poison\***  
**Rhus vernix**

**Smooth\***

*Rhus glabra*

**Winged\***

*Rhus copallina*

**Sweetgum**

*Liquidambar styraciflua*

**Swordfern\***

*Polystichum munitum*

**Tallowtree, Chinese**

*Sapium sebiferum*

**Tan oak**

*Lithocarpus densiflorus*

**Thimbleberry**

*Rubus parviflorus*

**Tobacco, tree\***

*Nicotiana glauca*

**Trumpet creeper**

*Campsis radicans*

**Willow**

*Salix spp.*

\* Partial control

\*\* See below for control or partial control instructions.

~~\*\*\* This product is not registered for use on~~  
~~Russianna~~

NOTE: If brush has been mowed or tilled or trees have been cut, do not treat until regrowth has reached the recommended stages of growth.

Apply this product when plants are actively growing and, unless otherwise directed, after full leaf expansion. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation.

In arid areas, best results are obtained when application is made in the spring to early summer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

Apply this product as follows to control or partially control the following woody brush and trees.

**Alder / Dewberry / Honeysuckle / Post Oak / Raspberry** - For control, apply 3 to 4 quarts per-acre of this product as a broadcast spray or as a 1 to 1-1/2 percent solution with hand-held equipment.

**Aspen, quaking / Cherry, bitter, black, pin / Hawthorn / Oak, southern red / Sweetgum / Trumpet creeper** - For control, apply 2 to 3 quarts of this product per acre as a broadcast spray or as a 1 to 1-1/2 percent solution with hand-held equipment.

**Birch / Elderberry / Hazel / Salmonberry / Thimbleberry** - For control, apply 2 quarts per-acre of this product as a broadcast spray or as a 1 percent solution with hand-held equipment.

**Blackberry** - For control, apply 3 to 4 quarts per-acre of this product as a broadcast spray, or a 1 to 1-1/2 percent solution with hand-held equipment. Make application after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. After berries have set or dropped in late fall, blackberry can be controlled by applying a 3/4 percent solution of this product with hand-held equipment. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre.

**Broom: French, Scotch** - For control, apply a 1-1/2 to 2 percent solution with hand-held equipment.

**Buckwheat, California / Hasardia / Monkey Flower / Tobacco, tree** - For partial control of these species, apply a 1 to 2 percent solution of this product as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

**Catsclaw** - For partial control, apply as a 1 to 1-1/2 percent solution with hand-held equipment.

**Coyote Brush** - For control, apply a 1-1/2 to 2 percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

**Eucalyptus, bluegum** - For control of eucalyptus resprouts, apply a 2 percent solution of this product with hand-held equipment when resprouts are 6 to 12 feet tall. Ensure complete coverage. Apply when plants are growing actively. Avoid application to drought-stressed plants. For control of eucalyptus trees 2 inches or less in diameter, cut trees as close to the soil surface as desired. Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting. Delay in applying this product may result in reduced performance.

**Kudzu** - For control, apply 4 quarts of this product per acre as a broadcast spray or as a 2 percent solution with hand-held

equipment. Repeat applications will be required to maintain control.

**Madrone resprouts** - For suppression or partial control, apply a 2 percent solution of this product to resprouts less than 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.

**Maple, red** - For control, apply as a 1 to 1-1/2 percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed. For partial control, apply 2 to 4 quarts of this product per acre as a broadcast spray.

**Maple, sugar / Oak, northern pin / Oak, red** - For control, apply as a 1 to 1-1/2 percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

**Poison Ivy / Poison Oak** - For control, apply 4 to 5 quarts of this product per acre as a broadcast spray or as a 2 percent solution with hand-held equipment. Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.

**Rose, multiflora** - For control, apply 2 quarts of this product per acre as a broadcast spray or as a 1 percent solution with hand-held equipment. Treatments should be made prior to leaf deterioration by leaf-feeding insects.

**Sage, black / Sagebrush, California / Chamise / Tallowtree, Chinese** - For control of these species, apply a 1 percent solution of this product as a foliar spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

**Tan oak resprouts** - For suppression or partial control, apply a 2 percent solution of this product to resprouts less than 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.

**Willow** - For control, apply 3 quarts of this product per acre as a broadcast spray or as a 1 percent solution with hand-held equipment.

**Other Woody Brush and Trees listed on this label** - For partial control, apply 2 to 4 quarts of this product per acre as a broadcast spray or as a 1 to 1-1/2 percent solution with hand-held equipment.

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**NONCROP USES**

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See "GENERAL INFORMATION" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of this label for essential product performance information and the following "NONCROP" sections for specific recommended uses.

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**EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURFGRASSES, TREES, SHRUBS, OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.**

Repeat treatments may be necessary to control weeds regenerating from underground parts or seeds.

This product does not provide residual weed control. For subsequent weed control, follow a label-approved herbicide program.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

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**INDUSTRIAL, RECREATIONAL  
AND PUBLIC AREAS**

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When applied as directed for "NONCROP USES", under conditions described, this product controls annual and perennial weeds listed on this label growing in areas such as airports, ditch banks, dry ditches, dry canals, fencerows, golf courses, highways, industrial plant sites, lumber yards, parking areas, parks, petroleum tank farms and pumping installations, pipelines, power and telephone rights-of-way, railroads, roadsides, schools, storage areas, ~~other public areas~~ other public areas and similar industrial or noncrop areas.

For specific rates of application and instructions for control of various annual and perennial weeds and woody brush and trees, see the "WEEDS CONTROLLED" section of this label.

This product may be applied with recirculating sprayers, shielded applicators, or wiper applicators in any noncrop site specified on this label. See the Selective Equipment part of ~~the~~ "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

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■ **TANK MIXTURES FOR  
INDUSTRIAL SITES AND  
FORESTRY SITE PREPARATIONS** ■

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■ **MONCHOO ~~PRO~~ plus OUST** ■

Use on industrial sites including airports, industrial plants, lumberyards, petroleum tank farms, pumping stations, pipelines, railroads, roadsides, storage areas or other similar sites where bare ground is desired.

This tank mixture may also be used as a site preparation treatment for sites to be planted to jack pine, loblolly pine, red pine, slash pine and Virginia pine.

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When applied as directed for "NONCROP USES" under the conditions described, this product plus Oust provides control of annual weeds listed in the "WEEDS CONTROLLED" section of the label for this product and Oust, and control or partial control of the perennial weeds listed below.

Apply 1 to 2 quarts of this product with 2 to 4 ounces of Oust in 10 to 40 gallons of spray solution per acre as a broadcast spray to actively growing weeds.

This mixture may be applied by aerial equipment in site prep operations. When applied by air, use the recommended rates in 5 to 15 gallons of spray solution per acre.

~~This product plus Oust tank mixtures may not be applied by air in California.~~

For control of annual weeds, use the lower rates of these products.

For control of the listed perennial weeds, use the higher rates of both products. For partial control, use the lower rates.

**Bahiagrass**

*Paspalum notatum*

**Bermudagrass\***

*Cynodon dactylon*

**Broomsedge**

*Andropogon virginicus*

**Dock, curly**

*Rumex crispus*

**Dogfennel**

*Eupatorium capilliflorum*

**Fescue, tall**

*Festuca arundinacea*

**Johnsongrass\*\***

*Sorghum halepense*

**Poorjoe\*\***

*Diodia teres*

**Quackgrass**

*Agropyron repens*

**Trumpet creeper\***

*Campsis radicans*

**Vaseygrass**

*Paspalum urvillei*

**Vervain, blue**

*Verbena hastata*

\*Suppression at the higher rates only.

\*\*Control at the lower rates.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

~~Must is a trademark of E. I. du Pont de Nemours and Company.~~

**TANK MIXTURES  
NONCROP SITES**

When applied as a tank mixture, this product provides control of the emerged annual weeds and partial control of the emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of the weeds listed in the individual product labels.

- HONCHO [REDACTED] plus DIURON ■
- HONCHO [REDACTED] plus KROVAR<sup>™</sup> I ■
- HONCHO [REDACTED] plus KROVAR II ■
- HONCHO [REDACTED] plus RONSTAR<sup>™</sup> 50WP ■
- HONCHO [REDACTED] plus SIMAZINE,  
PRINCEP<sup>™</sup> CALIBER 90<sup>™</sup> ■
- HONCHO [REDACTED] plus SIMAZINE 4L ■
- HONCHO [REDACTED] plus SIMAZINE 80W ■
- HONCHO [REDACTED] plus SURFLAN<sup>™</sup> 75W ■
- HONCHO [REDACTED] plus SURFLAN AS ■

See the "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" section of this label before preparing these tank mixtures.

Read and carefully observe the label claims, cautionary statements, recommended use rates and all other information on the labels of all products used in these tank mixtures. Use according to the most restrictive label directions for each product in the mixture.

**CONTROL OF EMERGED WEEDS**

**Annual Weeds**—Apply 1 quart per-acre of this product [REDACTED] in these tank mixtures when weeds are less than 6 inches tall and 1/4 [REDACTED] quarts per acre when weeds are more than 6 inches tall.

**Perennial Weeds**—For partial control of perennial weeds using these tank mixtures, apply 2 to 5 quarts per-acre of this product [REDACTED]. Follow the recommendations in the "WEEDS CONTROLLED" section of this label for stage of growth and rate of application for specific perennial weeds.

**PREEMERGENCE WEED CONTROL**

For preemergence weed control, refer to the individual product labels for specific noncrop sites, rates, carrier volumes and precautionary statements.

Mix only the quantity of spray solution which can be used during the same day. Do not allow these tank mixtures to stand overnight as this may result in reduced weed control.

**APPLY THESE TANK MIXTURES THROUGH CONVENTIONAL BROADCAST EQUIPMENT ONLY.**

~~Princep and Caliber are trademarks of Ciba-Geigy Corporation.~~

~~Krovar is a trademark of E.I. du Pont de Nemours and Company.~~

~~Renstar is a trademark of Rhone-Poulenc, Inc.~~

~~Surflan is a trademark of Elanco Products Company.~~

**FARMSTEAD WEED CONTROL**

When applied as directed for "NONCROP USES", under conditions described, this product controls undesirable vegetation listed on this label around farmstead building foundations, along and in fences, shelterbelts, and for general nonselective farmstead weed control.

For specific rates of application and instructions for control of various annual and perennial weeds, see the 'WEEDS CONTROLLED' section of this label.

**FARM FENCES**

This product will suppress perennial grasses along farm ditches. Apply this product at a rate of 6 to 8 fluid ounces per acre. Use 8 fluid ounces per acre when treating tall (coarse) fescue, fine fescue, orchardgrass or quackgrass covers. For best suppression of these species, add ammonium sulfate at a rate of 1.7 pounds per 10 gallons of spray solution. Use 6 fluid ounces per acre without ammonium sulfate when treating Kentucky bluegrass.

Apply treatments in 10 to 20 gallons of spray solution per acre to actively growing perennial grass covers. For best spray distribution and coverage, use flat fan nozzles.

Where broadleaf weed control or suppression is desired, tank mix this product with an appropriate, labeled broadleaf herbicide.

[REDACTED]

**CONSERVATION RESERVE PROGRAM  
(CRP ACRES)**

[REDACTED]

This product can be used to control undesirable vegetation when rotating out of CRP acres or to suppress competitive growth and seed production of undesirable vegetation in CRP acres.

For specific rates of application for various annual and perennial weeds, see the "WEEDS CONTROLLED" section of this label.

CRP applications may be made with either applicators or conventional spray equipment.

For selective applications with broadcast spray equipment, apply 1 to 16 ounces of this product per acre in early spring before desirable CRP grasses, such as crested and tall wheatgrass, break dormancy and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy. Some stunting of CRP perennial grasses will occur if applications are made when plants are not dormant.

[REDACTED]

**HABITAT MANAGEMENT**

[REDACTED]

This product is recommended for the restoration and/or maintenance of native habitats and in wildlife management areas. Apply as recommended in the "NONCROP USES" section of this label.

**Habitat Restoration and Maintenance** - When applied as directed, exotic and other undesirable vegetation may be controlled in habitat management areas. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broadspectrum vegetation control requirements in habitat management areas. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement. For spot treatments, care should be exercised to keep spray off of desirable plants.

**Wildlife Food Plots** - This product may be used as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after applying this product before tilling.

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**ORNAMENTALS AND CHRISTMAS TREES**

**THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTS AND CHRISTMAS TREES.**

~~Desirable plants may be protected from the spray solution by using shields or coverings made of plywood or other noncombustible material.~~

When applied as instructed for the conditions described for "NONCROP USES", this product controls undesirable vegetation listed on this label prior to planting ornamentals, within and around greenhouses and shadehouses, and as a postdirected spray around established ornamentals ~~and Christmas trees.~~

~~NOTE: If spraying areas adjacent to desirable plants, use a shield made of cardboard, sheet metal or plywood while spraying to help prevent spray from contacting foliage of desirable plants.~~

For specific rates of application and instructions for control of various annual and perennial weeds, see the "WEEDS CONTROLLED" section of this label.

Where repeat applications are necessary, do not exceed 10.6 quarts of this product per acre per year.

**Site Preparation**—Following preplant applications of this product, any ornamental ~~and Christmas tree~~ species may be planted. Precautions should be taken to protect nontarget plants during site preparation applications.

**Greenhouse/Shadehouse Use**—This product may be used to control weeds listed on this label which are growing in greenhouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

**Postdirected Spray**—Use as a postdirected spray around established woody ornamental ~~species or Christmas trees~~ species such as those listed below. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established ornamental species.

**Arborvitae**  
*Thuja spp.*

**Azalea**  
*Rhododendron spp.*

**Boxwood**  
*Buxus spp.*

**Crabapple**  
*Malus spp.*

**Euonymus**  
*Euonymus spp.*

**Fir**

- Abies spp.*
- Pseudotsuga spp.*

**Jojoba**

- Simmondsia chinensis*

**Hollies**

- Ilex spp.*

**Lilac**

- Syringa spp.*

**Magnolia**

- Magnolia spp.*

**Maple**

- Acer spp.*

**Oak**

- Quercus spp.*

**Privet**

- Ligustrum spp.*

**Pine**

- Pinus spp.*

**Spruce**

- Picea spp.*

**Yew**

- Taxus spp.*

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**SILVICULTURAL SITES,   
RIGHTS-OF-WAY  
and CHRISTMAS TREES**

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**NOTE: NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN SILVICULTURAL NURSERIES  OR CHRISTMAS TREE PLANTATIONS.**

When applied as directed for 'NONCROP USES' under conditions described, this product controls undesirable vegetation listed on this label. This product also suppresses or controls undesirable vegetation listed on this label when applied at recommended rates for release of established coniferous species listed on this label.

For specific rates of application and instructions for control of various brush, annual and perennial weeds, see the 'WEEDS CONTROLLED' section of this label. For specific rates of application for release of listed coniferous species, see the 'CONIFER RELEASE' part of this section of the label.

Where repeat applications are necessary, do not exceed 10.6 quarts of this product per acre per year.

**Aerial Application**—This product may be applied using aerial spray equipment for silvicultural site preparation, conifer release and rights-of-way treatments. See the "APPLICATION EQUIPMENT AND TECHNIQUES" part of the "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" section of this label for information on how to apply this product by air.

**DO NOT APPLY THIS PRODUCT BY AIR TO RIGHTS-OF-WAY SITES IN THE STATE OF CALIFORNIA.**

~~In order to~~ reduce the aerial application drift hazard to aquatic sites\*, to nontarget sites, or any site containing desirable vegetation, always maintain appropriate buffer zones. A buffer zone of the following minimum distances should be maintained:

- Helicopters using a Microfoil™ boom, a Thru-Valve™ boom (TVB-45), or equivalent drift control systems, should maintain at least a 50-foot buffer zone.
- When using other aerial equipment:
  1. Maintain at least a 75-foot buffer zone for applications using 2 quarts or less per acre of this product.
  2. Maintain at least a 125-foot buffer zone for applications using more than 2 quarts per acre of this product.
  3. Maintain at least a 400-foot buffer zone for applications on rights-of-way when applied from 75 feet or more above ground level.

These distances should be increased if conditions favoring drift exist.

\* Aquatic sites include all lakes, ponds, and streams used for significant domestic purposes or angling.

~~Microfoil is a trademark of Union Carbide Agricultural Products, Inc.~~

~~Thru-Valve is a trademark of Waldrum Specialties, Inc.~~

■ **SITE PREPARATION** ■

Following preplant applications of this product, any silvicultural species may be planted.

■ **POSTDIRECTED SPRAY** ■

In established silvicultural sites, use as a spray on the foliage of undesirable vegetation. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of desirable species.

■ **CONIFER RELEASE** ■

For release, apply only where conifers have been established for more than one year. Vegetation should not be disturbed prior to treatment or until visual symptoms appear after treatment. Symptoms of treatment are slow to appear, especially in woody species treated in late fall. Injury may occur to conifers treated for release, especially where spray patterns overlap or the higher rates are applied or when applications are made during periods of active conifer growth.

Applications must be made after formation of final conifer resting buds in the fall or prior to initial bud swelling in spring. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Use the following rates for conifer release to control or partially control the weeds listed in the "WEEDS CONTROLLED" section of this label.

**For release of the following conifer species:**

**Douglas fir**  
*Pseudotsuga menziesii*

**Fir**  
*Abies spp.*

**Hemlock**  
*Tsuga spp.*

**Pines\***  
*Pinus spp.*

**Spruce**  
*Picea spp.*

\* Includes all species except eastern white pine, loblolly pine or slash pine.

Apply 1/4 to 2 quarts of this product per acre except in Washington and Oregon, west of the crest of the Cascade Mountains. For spring treatments west of the crest of the Cascade Mountains, apply 1 quart of this product per acre before conifer bud swell for control of annual weeds. For fall treatments in Washington and Oregon, west of the crest of the Cascade Mountains, apply 1 to 1 1/4 quarts of this product per acre before any major leaf drop of deciduous species.

For release of western hemlock, apply 1 quart of this product per acre.

**For release of the following conifer species:**

**Loblolly pine**  
*Pinus taeda*

**Eastern white pine**  
*Pinus strobus*

**Slash pine**  
*Pinus elliottii*

**Late Season Application**—Apply 14 [redacted] to 2 quarts of this product in a minimum of 5 gallons of spray solution per acre during early autumn. Applications made prior to September 1 or when conditions are conducive to rapid growth of conifers will create the potential for increased injury in the form of tip and/or needle burn. Injury may decrease with later applications. Some autumn colors are acceptable at time of application. Apply prior to frost or leaf drop of undesirable plants. Applications made according to label directions will release loblolly pine, eastern white pine and slash pine by reducing competition from the following species:

**Ash**

*Fraxinus spp.*

**Cherry:**

**Black**

*Prunus serotina*

**Pin**

*Prunus pensylvanica*

**Elm**

*Ulmus spp.*

**Hawthorn**

*Crataegus spp.*

**Locust, black**

*Robina pseudoacacia*

**Maple, red**

*Acer rubra*

**Oak:**

**Black**

*Quercus velutina*

**Post**

*Quercus stellata*

**Southern Red**

*Quercus falcata*

**White**

*Quercus alba*

**Persimmon**

*Diospyros spp.*

**Poplar, yellow**

*Liriodendron tulipifera*

**Sassafras**

*Sassafras albidum*

**Sourwood**

*Oxydendrum arboreum*

**Sumac:**

**Poison**

*Rhus vernix*

**Smooth**

*Rhus glabra*

**Winged**

*Rhus copallina*

**Sweetgum**

*Liquidambar styraciflua*

Apply only to those sites where woody brush and trees listed in this label constitute the majority of the undesirable species.

■ **Seache [REDACTED] plus Oust Tank Mixtures** ■  
**for Conifer Release from Herbaceous Weeds**

~~THIS PRODUCT PLUS OUST TANK MIXTURES MAY NOT BE APPLIED BY AIR IN CALIFORNIA.~~

To release loblolly pines from herbaceous weeds, tank mixtures of this product with Oust will provide control of annual weeds listed in the "WEEDS CONTROLLED" section of this and the Oust label, and partial control of the perennial weeds listed below.

Apply 16 to 24 fluid ounces of this product with 2 to 4 ounces of Oust in 10 to 30 gallons of spray solution per acre. Make application to actively growing weeds as a broadcast spray over the top of the young loblolly pines.

This tank mixture may be applied using aerial equipment. When applying by air, use the recommended rate in 5 to 15 gallons of spray solution per acre.

For control of annual weeds less than 12 inches in height (or runner length on annual vines), use the low [REDACTED] rates of both products. Use the higher rates of both products when annual weeds are in more advanced stages of growth and approaching flower or seed formation.

Use the higher rates of both products for partial control of the following perennial weeds. Use the lower rates for suppression of growth.

**Bahiagrass**

*Paspalum notatum*

**Broomsedge**

*Andropogon virginicus*

**Dock, curly**

*Rumex crispus*

**Dogfennel**

*Eupatorium capilliflorum*

**Fescue, tall**  
*Festuca arundinacea*

**Johnsongrass\*\***  
*Sorghum halepense*

**Poorjoe\*\***  
*Diodia teres*

**Trumpet creeper\*\***  
*Campsis radicans*

**Vaseygrass**  
*Paspalum urvillei*

**Vervain, blue**  
*Verbena hastata*

~~\*Suppression at the higher rates only.~~

\*Control at the higher rates.



Pine damage may occur or can be accentuated if treatment takes place when young trees are under stress from drought, flood water, insects or disease.

Read and observe the cautionary statements and all other information appearing on the label of all herbicides used.

**NOTE TO USER**

This product must not be used in areas where adverse impact on Federally designated endangered/threatened plant or aquatic species is likely.

Prior to making applications, the user of this product must determine that no such species are located in or immediately adjacent to the area to be treated.

**CUT STUMP TREATMENTS**

Woody vegetation may be controlled by treating freshly cut stumps of trees and resprouts with this product. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut vegetation close to the soil surface. Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting. Delays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full leaf expansion.

When used according to directions for cut stump application, this product will CONTROL, PARTIALLY CONTROL or SUPPRESS many types of woody brush and tree species, some of which are listed below:

**Alder**

*Alnus* spp.

**Eucalyptus/Bluegum**

*Eucalyptus globulus* [REDACTED]

**Madrone**

*Arbutus menziesii*

**Oak**

*Quercus* spp.

**Reed, giant**

*Arundo donax*

**Saltcedar**

*Tamarisk* spp.

**Sweetgum**

*Liquidambar styraciflua*

**Tan Oak**

*Lithocarpus densiflorus*

[REDACTED]  
[REDACTED]

■ **INJECTION AND FRILL  
APPLICATIONS** ■

Woody vegetation may be controlled by injection or frill application of this product. Apply this product using suitable equipment which must penetrate into the living tissue. Apply the equivalent of 1 ml of this product per each 2 to 3 inches of trunk diameter (DBH). This is best achieved by applying [REDACTED] 50 to 100 percent concentration of this material either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frill or cut areas in species that exude sap freely after frills or cutting. In species such as this, make frill or cut at an oblique angle so as to produce a cupping effect and use undiluted material. For best results, application should be made during periods of active growth and after full leaf expansion.

This treatment will control the following woody species:

**Oak**

*Quercus* spp.

**Poplar**

*Populus* spp.

**Sweetgum**

*Liquidambar styraciflua*

**Sycamore**

**Platanus occidentalis**

This treatment will suppress the following woody species:

**Black gum**

*Nyssa sylvatica*

**Dogwood**

*Cornus spp.*

**Hickory**

*Carya spp.*

**Maple, red**

*Acer rubrum*

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**TURFGRASSES AND GRASSES  
FOR SEED PRODUCTION**

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**■ PREPLANT AND RENOVATION ■**

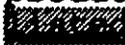
When applied as directed for "NONCROP USES", under conditions described, this product controls most existing vegetation prior to the planting or renovation of either turfgrasses or grass seed production areas.

For specific rates of application and instructions for control of various annual and perennial weeds, and woody brush and trees, see the "WEEDS CONTROLLED" section of this label.

For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall applications provide best control.

**DO NOT DISTURB SOIL OR UNDERGROUND PLANT PARTS BEFORE TREATMENT.** Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts.

**TURFGRASSES**

Where existing vegetation is growing in a field or unmowed situation, apply this product to actively growing weeds at the stages of growth given  in the "WEEDS CONTROLLED" section of this label.

Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

Desirable turfgrasses may be planted following the above procedures.

**GRASSES FOR SEED PRODUCTION**

Apply this product to actively growing weeds at the stages of growth given [REDACTED] in the "WEEDS CONTROLLED" section of this label prior to planting or renovation of turf or forage grass areas grown for seed production.

DO NOT feed or graze treated areas within 8 weeks after application.

■ **ANNUAL WEED CONTROL IN  
DORMANT BERMUDAGRASS  
AND BAHIAGRASS TURF** ■

When applied as directed for "NONCROP USES" under the conditions described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turf. Refer to the rate table for this product alone under the "RELEASE OF BERMUDAGRASS AND BAHIAGRASS" section of this label for recommended rates and volumes on the species to be suppressed or controlled. Treat only when turf is dormant and prior to spring greenup. Spot treatments or broadcast applications of this product in excess of 16 fluid ounces per acre may result in injury or delayed greenup in highly maintained turfgrass areas; i.e., golf courses, lawns, etc. DO NOT APPLY TANK MIXTURES of this product plus Oust in highly maintained turfgrass areas.

**RELEASE OF BERMUDAGRASS OR  
BAHIAGRASS**

NOTE: Use only in areas where bermudagrass or bahiagrass are desirable groundcovers and where some temporary injury or discoloration can be tolerated. Use tank mixtures of this product plus Oust only on railroads, highways, utility plant sites, or other right-of-way areas.

When applied as directed for "NONCROP USES" under the conditions described, this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahiagrass. This product may be tank-mixed with Oust as recommended for residual control. Make applications to dormant bermudagrass or bahiagrass. Tank mixtures of this product plus Oust may delay greenup. To avoid delays in greenup and minimize injury, do not add more than 1 ounce per acre of Oust on bermudagrass or more than 1/4 [REDACTED] ounce per acre on bahiagrass, or treat when these grasses are in a semi-dormant condition.

For best results on winter annuals, treat when plants are in an early growth stage (less than 6 inches in height) after most have germinated. For best results on tall fescue, treat when fescue is at or beyond the 4 to 6-leaf stage.

WEEDS CONTROLLED

Rate recommendations for control or suppression of winter annuals and tall fescue are listed below:

Apply the recommended rates of this product alone or as a tank mixture in 10 to 25 gallons of total spray volume per acre.

~~For recommendations within specific geographic areas, contact a Monsanto representative.~~

WEEDS CONTROLLED OR SUPPRESSED WITH HONCHOO [REDACTED] ALONE\*

NOTE: C = Control  
S = Suppression

WEED SPECIES	HONCHOO [REDACTED] FLUID OZ/ACRE					
	8	12	16	24	32	64
Barley, little <i>Hordeum pusillum</i>	S	C	C	C	C	C
Bedstraw, catchweed <i>Galium aparine</i>	S	C	C	C	C	C
Bluegrass, annual <i>Poa annua</i>	S	C	C	C	C	C
Chervil <i>Chaerophyllum tainturieri</i>	S	C	C	C	C	C
Chickweed, common <i>Stellaria media</i>	S	C	C	C	C	C
Clover, crimson <i>Trifolium incarnatum</i>	.	S	S	C	C	C
Clover, large hop <i>Trifolium campestre</i>	.	S	S	C	C	C
Fescue, tall <i>Festuca arundinaceae</i>	.	.	.	.	S	S
Geranium, Carolina <i>Geranium carolinianum</i>	.	.	S	S	C	C
Henbit <i>Lamium amplexicaule</i>	.	S	C	C	C	C
Ryegrass, Italian <i>Lolium multiflorum</i>	.	.	S	C	C	C

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<b>Speedwell, corn</b> <i>Veronica arvensis</i>	S	C	C	C	C	C
<b>Vetch, common</b> <i>Vicia sativa</i>	.	.	S	C	C	C

\* These rates apply only to sites where an established competitive turf is present.

**WEEDS CONTROLLED OR SUPPRESSED  
WITH HONCHOO [REDACTED] PLUS OUST\***

NOTE: C = Control  
S = Suppression

**HONCHOO [REDACTED] + OUST**

WEED SPECIES	HONCHOO [REDACTED] (FL. OZ/A) + OUST (OZ/A)	HONCHOO [REDACTED] + OUST						
		8 +4	12 +4	12 +4	16 +4	16 +4	12 +1	16 +1
<b>Barley, little</b> <i>Hordeum pusillum</i>		C	C	C	C	C	C	C
<b>Bedstraw, catchweed</b> <i>Galium aparine</i>		C	C	C	C	C	C	C
<b>Bluegrass, annual</b> <i>Poa annua</i>		S	C	C	C	C	C	C
<b>Chervil</b> <i>Chaerophyllum tainturieri</i>		C	C	C	C	C	C	C
<b>Chickweed, common</b> <i>Stellaria media</i>		S	C	C	C	C	C	C
<b>Clover, crimson</b> <i>Trifolium incarnatum</i>		S	S	S	S	C	C	C
<b>Clover, large hop</b> <i>Trifolium campestre</i>		.	.	S	S	S	C	C
<b>Fescue, tall</b> <i>Festuca arundinaceae</i>		.	.	.	.	.	S	S
<b>Geranium, Carolina</b> <i>Geranium carolinianum</i>		.	S	S	C	C	C	C
<b>Henbit</b> <i>Lamium amplexicaule</i>		.	S	C	C	C	C	C
<b>Ryegrass, Italian</b> <i>Lolium multiflorum</i>		.	S	S	C	C	C	C

<b>Speedwell, corn</b> <i>Veronica arvensis</i>	S	C	C	C	C	C	C
<b>Vetch, common</b> <i>Vicia sativa</i>	C	C	C	C	C	C	C

\* These rates or mixtures of rates apply only to sites where an established competitive turf is present.

**RELEASE OF ACTIVELY GROWING BERMUDAGRASS**

When applied as directed, this product will aid in the release of bermudagrass by providing control of annual species listed in the 'WEEDS CONTROLLED' section of this and the Oust label, and suppression or partial control of certain perennial weeds.

For control or suppression of those annual species listed on this label, use 1 to 3 pints of this product as a broadcast spray in 10 to 25 gallons of spray solution per acre. Use the lower rate when treating annual weeds less than 6 inches in height (or length of runner in annual vines). Use the higher rate as plant size increases ~~or as they approach flower or seedhead formation.~~

Use the higher rate of this product for partial control of the following perennial species. Use the lower rates for suppression of growth. For best results, see the 'WEEDS CONTROLLED' section of this label for proper stage of growth.

**Bahiagrass**  
*Paspalum notatum*

**Bluestem, silver**  
*Andropogon saccharoides*

**Fescue, tall**  
*Festuca arundinacea*

**Johnsongrass\*\***  
*Sorghum halepense*

**Trumpet creeper\*\***  
*Campsis radicans*

**Vaseygrass**  
*Paspalum urvillei*

~~\*Suppression at higher rates only.~~

\* Control at the higher rates.

~~Suppression at higher rates only.~~

This product may be tank-mixed with Oust. If tank-mixed, use no more than 1 to 2 pints per acre of this product ~~per acre~~ with 1 to 2 ounces of Oust per acre.

Use the lower rates of both products to control annual weeds less than 6 inches in height (or runner length in annual vines) that are listed in the "WEEDS CONTROLLED" section of this booklet and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages.

Use the higher rates of this product to provide partial control of the following perennial weeds. Use the lower rates for suppression of growth.

**Bahiagrass**

*Paspalum notatum*

**Bluestem, silver**

*Andropogon saccharoides*

**Broomsedge**

*Andropogon virginicus*

**Dock, curly**

*Rumex crispus*

**Dogfennel**

*Eupatorium capilliflorum*

**Fescue, tall**

*Festuca arundinacea*

**Johnsongrass\***

*Sorghum halepense*

**Poorjoe\*\***

*Diodia teres*

**Trumpet creeper\***

*Campsis radicans*

**Vaseygrass**

*Paspalum urvillei*

**Vervain, blue**

*Verbena hastata*

\*Suppression at higher rates only.

\*\*Control at the higher rates.

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment but regrowth will occur under moist conditions. Repeat applications in the same season are not recommended, since severe injury may result.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

**COOL SEASON TURF  
GROWTH REGULATION**

When applied as directed, this product will suppress growth and seedhead development of listed turf species in industrial sites.

This product is recommended for management of coarse turf on roadside rights-of-way or other industrial areas where some turf discoloration can be tolerated. The turf will regrow under moist conditions as effects of this product wear off. Do not use on high-quality turf.

Apply 4 to 6 fluid ounces of this product per acre alone or in a recommended tank mixture. Spray volumes of 10 to 40 gallons per acre are recommended.

This product can be used for growth and seedhead suppression of:

**Tall Fescue  
Smooth Brome**

For best results, apply this product in a recommended tank mixture to actively growing turfgrasses after greenup in the spring of the year. For suppression of seedheads, applications must be made before boot-to-seedhead stage of development. Applications made from seedhead emergence until maturity may result in turf discoloration or injury.

After mowing or removal of seedheads, this product in a recommended tank mixture may also be used to suppress the growth of certain turfgrasses. Allow turf to recover from stress caused by heat, drought or mowing before making applications. Applications made to turf under stress may increase the potential for discoloration or injury.

**ANNUAL GRASSES**

For growth suppression of some annual grasses such as annual ryegrass, wild barley and wild oats, apply 3 to 4 fluid ounces of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments made after seedhead emergence may cause injury to the desired grasses.

**TANK MIXTURES**

For the following tank mixtures, consult each product label for weeds controlled and the correct stage of application. Do not treat turf under stress.

**Tank mixtures plus 2,4-D**

For additional weed control benefits, up to 1 pound a.i. per acre of 2,4-D may be added to the following tank mixtures. Consult the label for 2,4-D for weeds controlled.

**TALL FESCUE**

**Hecho ~~2000~~ plus Telar<sup>SM</sup>**

For suppression of tall fescue growth and seedheads, and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to 1/4 ~~ounce~~ ounce of Telar per acre.

This tank mixture can also be applied after mowing or removal of tall fescue seedheads for turf growth suppression. Make only one of the above applications per growing season.

**Hecho ~~2000~~ plus Oust**

For suppression of tall fescue growth and seedheads, and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to 1/4 ~~ounce~~ ounce of Oust per acre.

**Hecho ~~2000~~ plus Escort<sup>SM</sup>**

This tank mixture can be applied after mowing or removal of tall fescue seedheads for turf growth suppression and control or partial control of some annual weeds. Use up to 1/3 ounce of Escort per acre.

~~NOTE: This product is not registered for use with Florida and California.~~

**SMOOTH BROME**

**Hecho ~~2000~~ plus Oust**

For suppression of smooth brome growth and seedheads and control or partial control of some annual weeds, apply this tank mixture after greenup and prior to boot-to-seedhead stage of development. Use up to 1/4 ~~ounce~~ ounce of Oust per acre.

~~Escort and Telar are trademarks of E. I. du Pont de Nemours and Company.~~

**BABIAGRASS SEEDHEAD AND  
VEGETATIVE SUPPRESSION**

When applied as directed in the indicated noncrop areas (roadsides, airports, golf course roughs, and plant sites), this product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with single applications and approximately 120 days with sequential applications.

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Apply this product 1 to 2 weeks after full greenup of bahiagrass or after the bahiagrass has been mowed to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 6 fluid ounces per acre of this product in 10 to 25 gallons of water per acre.

Sequential applications of this product may be made at approximately 45 day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 4 fluid ounces of this product per acre. A second sequential application of 2 to 4 fluid ounces per acre may be made approximately 45 days after the last application.

A tank mixture of this product plus Oust may be applied only on roadsides for seedhead inhibition and vegetative suppression. Apply 6 fluid ounces per acre of this product plus 0.25 ounce per acre of Oust, 1 to 2 weeks following an initial spring mowing. When using this product plus Oust for suppression of bahiagrass, make only one application per year.

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#### CROPPING SYSTEMS

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When applied as directed for "CROPPING SYSTEMS", under the conditions described, this product controls annual and perennial weeds listed on this label, prior to the emergence of direct seeded crops or prior to transplanting of crops listed on this label.

See the "GENERAL INFORMATION" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of this label for essential product performance information.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE, GREEN STEMS OR FRUIT OF DESIRABLE CROPS, PLANTS, TREES OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Except as otherwise specified on this label, repeat treatments must be made before the crop emerges in accordance with the instructions of this label.

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts per acre of this product per year.

Do not plant subsequent crops other than those on the label for 30 days following application.

Do not harvest or feed treated vegetation for 8 weeks following application. Following spot treatment or selective equipment use, allow 14 days before grazing domestic livestock or harvesting forage grasses and legumes.

**ALFALFA\***  
**ARTICHOKE-**  
 (Jerusalem)  
**ASPARAGUS\***  
**ATEMOYA**  
**BARLEY\***  
**BEANS (All)**  
**BEEF GREENS**  
**BEETS (Red, Sugar)**  
**BLACKBERRY**  
**BLUEBERRY**  
**BOYSENBERRY**  
**BREADFRUIT**  
**BROCCOLI**  
**CABBAGE**  
**CANICTEL**  
**CARAMBOLA**  
**CARROT**  
**CAULIFLOWER**  
**CELERY**  
**CHICORY**  
**CORN (All)\***  
**COTTON\***  
**CRANBERRY**  
**CUCUMBER\*\*\***  
**CURRANT**  
**DATES**  
**DEWBERRY**  
**EGGPLANT\*\*\***  
**ELDERBERRY**  
**FORAGE GRASSES\***  
**FORAGE LEGUMES\***  
**GARLIC\*\*\***  
**GOOSEBERRY**  
**GOURDS\*\*\***  
**HORSERADISH**  
**HUCKLEBERRY**  
**JABOTICABA**  
**JACKFRUIT**  
**KALE**  
**LENTILS**  
**LETTUCE**  
**LOGANBERRY**  
**LONGAN**  
**LYCHEE**  
**MELONS\*\*\***  
**MUSTARD GREENS**  
**OATS\***  
**OKRA**  
**OLALLIEBERRY**  
**ONION**  
**PARSNIPS**  
**PASSION-FRUIT**  
**PEANUTS**  
**PEAS (All)**  
**PEPPER\*\*\***

**PERSIMMONS**  
**PINEAPPLE++**  
**POTATO (Irish, Sweet)**  
**PUMPKIN+++**  
**RADISH**  
**RASPBERRY-**  
     (~~Black, Red~~)  
**RICE++**  
**RUTABAGA**  
**SAPODILLA**  
**SAPOTE (Black, Nancy, White)**  
**SORGHUM (Milo)\***  
**SOURSOP**  
**SOYBEANS+**  
**SPINAGE**  
**SQUASH+++**  
     (~~Summer, Winter~~)  
**SUGAR-APPLE**  
**SUGARCANE**  
**TAMARIND**  
**TOMATILLO+++**  
**TOMATOES++++**  
**TURNIPS**  
**WATERCRESS+++**  
**WATERMELON+++**  
**WHEAT+**  
**YAMS**

**ROB CROPS**

**CORN ALLIUM**  
**COYON**  
**PEANUTS**  
**SORGHUM (MILK)**  
**SOYBEANS+**  
**SUGAR CANE**

**CEREAL GRAINS**

**BARLEY**  
**BUCKWHEAT**  
**MILLET (LEAFY, PROSO)**  
**OATS+**  
**RICE++**  
**RYE**  
**TRITICALE**  
**WHEAT (ALL)**  
**WHEAT (L)**

**FRUITS**

**ALMONDS**  
**CHRONCH**  
**PITON**  
**GRAPEFRUIT**  
**CUCUMBER**  
**LEMON**  
**LIME**





**TROPICAL CROPS AND LEVEES**

**AVOCADO  
BURRHEADS  
CANTALOUPE**

**TROPICAL FRUITS**

**ACEROLA  
APPLE  
AVOCADO  
BANANA  
BREADFRUIT  
CANTALOUPE  
CARAMBOLA  
CHERRY  
COYOTE BEANS  
COFFEE  
CUSTARD APPLE  
GUAVA  
JACKFRUIT  
JACKFRUIT  
LONGAN  
LYCHEE  
MANGO  
PEACH  
PASSION FRUIT  
PERSIMMON  
PINEAPPLE  
POMEGRANATE  
SAPOTE  
SAPOTE (BLACK, MAMEY, WHITE)  
SOURSOB  
SUGAR APPLE  
TAMARIND  
TEA**

\* Spot treatments may be applied in these crops.

\*\* Do not treat rice fields or levees when the fields contain flood water.

\*\*\* Apply only prior to planting. Allow at least 3 days between application and planting.

~~† Use is restricted to direct seeded crops only.~~

~~†† Do not feed or graze treated pineapple forage following application.~~

~~Use is restricted to direct seeded crops only.~~

When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be

removed by 1/2 inch natural rainfall or by applying water via a sprinkler irrigation system.

**Spot Treatment (Only those crops with "\*" can be spot treated) -** Applications in growing crops must be made prior to heading of small grains and milo, initial pod set in soybeans, silking of corn, or boll opening on cotton.

For forage grasses and forage legumes, see "SPOT TREATMENT" in the "PASTURES" section of "CROPPING SYSTEMS" in this label.

For dilution and rates of application using boom or hand-held equipment, see the "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" and "WEEDS CONTROLLED" sections of this label.

NOTE: FOR FORAGE GRASSES AND FORAGE LEGUMES, NO MORE THAN ONE-TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME. FOR ALL OTHER CROPS, DO NOT TREAT MORE THAN 10 PERCENT OF THE TOTAL FIELD AREA TO BE HARVESTED.

THE CROP RECEIVING SPRAY IN TREATED AREA WILL BE KILLED. TAKE CARE TO AVOID DRIFT OR SPRAY OUTSIDE TARGET AREA FOR THE SAME REASON.

**Selective Equipment -** This product may be applied through recirculating sprayers, shielded applicators, or wiper applicators in cotton and soybeans. Shielded and wiper applicators may also be used in tree crops and grapes. Wiper applicators may be used in rutabagas, forage grasses and forage legumes, including pasture sites and grain sorghum (milo). See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

Allow at least the following time intervals between application and harvest:

- Cotton, Soybeans..... 7 days
- Apples, Atemoya, Avocado, Breadfruit, Canistel, Carambola, Cherry, Citrus, Dates, Grapes, Jaboticaba, Jackfruit, Longan, Lychee, Passion Fruit, Pear, Persimmons, Rutabagas, Sapodilla, Sapote, Soursop, Sugar apple, Tamarind .....14 days
- Stone Fruit.....17 days
- Nut Crops .....21 days
- Sorghum (milo)\*.....40 days

\* Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.

**ASPARAGUS**

When applied as directed for "CROPPING SYSTEMS", under the conditions described, this product controls weeds listed on this label in asparagus.

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For specific rates of application and instructions for control of various annual and perennial weeds, see the "WEEDS CONTROLLED" section of this label.

**Prior to Crop Emergence** - Apply this product prior to planting or emergence of spears in an established crop for the control of emerged labeled annual and perennial weeds. DO NOT APPLY WITHIN A WEEK BEFORE THE FIRST SPEARS EMERGE.

**Spot Treatment** - Apply this product immediately after cutting, but prior to the emergence of new spears. Do not treat more than 10 percent of the total field to be harvested. Do not harvest within 5 days of treatment.

**Postharvest** - Apply this product after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as directed or shielded spray in order to avoid contact of the spray with ferns, stems or spears. Direct contact of the spray with the asparagus may result in serious crop injury.

**NOTE:** Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of the spray with the crop.

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#### BERRIES AND SMALL FRUIT

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For cranberries, apply after fruit set and no later than 30 days before harvest. Wiper applicators may be used in cranberries in accordance with instructions in this section.

For other berries, apply as a preplant broadcast application, or as a directed spray or wiper application post-planting.

See the "GENERAL INFORMATION" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of this label for essential product performance information.

See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on recommended use and calibration of this equipment.

Allow a minimum of 14 days between application and harvest of small fruited berries.

**For Wick or other Wiper Applicators** - Mix 1 gallon of this product in 4 gallons of water to prepare a 20 percent solution. Apply the solution to emerged weeds. Apply after cranberry fruit set and no later than 30 days before harvest.

In severe infestations, reduce equipment ground speed to insure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

Do not permit herbicide solution to contact desirable vegetation, including green shoots, canes or foliage.

**FALLOW AND REDUCED  
TILLAGE SYSTEMS**

~~FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO SUPPLEMENTAL LABEL.~~

Use this product in fallow and reduced tillage systems for control of annual weeds prior to emergence of crops listed in this label. Refer to the "WEEDS CONTROLLED" section of this label for specific rates and instructions. This product may be applied using ground or aerial spray equipment. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for instructions.

- **TANK MIXTURES** ■
- **HONCHO ~~XXXXXXXXXX~~ plus BANVEL** ■
- **HONCHO ~~XXXXXXXXXX~~ plus 2,4-D** ■
- **HONCHO ~~XXXXXXXXXX~~ plus GOAL™** ■

~~DO NOT APPLY BANVEL OR 2,4-D TANK MIXTURES BY AIR IN CALIFORNIA.~~

Applications of 2,4-D or Banvel must be made at least 7 days prior to planting corn. ~~Applications of 2,4-D must be made at least 30 days prior to planting soybeans.~~

The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species. Some crop injury may occur if Banvel is applied within 45 days of planting. Refer to the Banvel and 2,4-D labels for cropping restrictions and other use instructions.

**Honcho® ~~XXXXXXXXXX~~ plus Goal Tank Mixtures**

This product alone or in tank mixtures with Goal will provide control of those weeds listed below.

Make applications when weeds are actively growing and at the recommended stages of growth. Avoid spraying when weeds are subject to moisture stress, when dust is on the foliage or when straw canopy covers the weeds.

**HONCHO 12 fluid oz/acre**

**HONCHO 16 fluid oz/acre**

Wheat	18"
Barley	12"
Bluegrass,	
annual	6"
Barnyardgrass	6"
Rye	6"

Annual grasses at	
left plus:	
Ryegrass,	
annual	6"
Chickweed	6"
Groundsel	6"
Marestail	6"
Rocket, London	6"
Shepherdspurse	6"
Crabgrass	12"
Johnsongrass,	
seedling	12"
Lambsquarters	12"
Oats, wild	12"
Pigweed, redroot	12"
Mustards	12"

**NOTE: Use 32 fluid ounces of this product per acre in mixtures with 2 to 4 fluid ounces of Goal.**

**HONCHO 12 fluid oz/acre**

**HONCHO 16 fluid oz/acre**

**+  
GOAL\*\* 2' to 4 fluid oz/acre**

**+  
GOAL\*\* 2 to 4 fluid oz/acre**

Annual grasses above	
plus:	
Cheeseweed	3"
Chickweed	3"
Groundsel	3"
Rocket, London	6"
Shepherdspurse	6"

Annual weeds above	
plus:	
Cheeseweed	6"
Groundsel	6"
Chickweed	6"
Rocket, London	12"
Shepherdspurse	12"

**NOTE: Use 32 fluid ounces of this product per acre in mixtures with 2 to 4 fluid ounces of Goal. Use Goal when weeds approach maximum recommended height or stands are dense.**

\* Maximum height or length in inches.

\*\* Use the higher rate **Goal** when weeds approach maximum recommended height or stands are dense.

~~\*\*Goal is a trademark of Rohm and Haas Company.~~

**ECOFARMING SYSTEMS**

**Recommendations for use of Goal in the Ecofarming System:**

The Ecofarming System consists of the following rotation: winter wheat, corn/sorghum, ecofallow.

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Use the following tank mixtures for control of emerged annual weeds before planting corn or sorghum in the Ecofarming System.

**HONGHOO** [REDACTED] at 16 to 20 fluid ounces per acre  
plus  
2,4-D at 0.375 to 0.5 pound a.i. per acre  
plus  
ATRAZINE at 0.75 to 1 pound a.i. per acre  
plus  
LASSO® at 2.5 to 3 quarts per acre

The above tank mixture should be applied in 28-0-0 or 32-0-0 liquid fertilizer carrier at 20 to 30 gallons per acre. The liquid fertilizer may be diluted with water to achieve the required carrier volume.

**WEEDS CONTROLLED** - The following weeds, up to a maximum height of 4 inches, will be controlled:

**Brome, downy**

*Bromus tectorum*

**Cheat**

*Bromus secalinus*

**Foxtail, green**

*Setaria viridis*

**Foxtail, yellow**

*Setaria lutescens*

**Kochia\***

*Kochia scoparia*

**Lettuce, prickly**

*Lactuca serriola*

**Pigweed, redroot**

*Amaranthus retroflexus*

**Thistle, Russian**

*Salsola kali*

**Wheat, volunteer**

*Triticum aestivum*

\*For improved control of kochia, add 4 fluid ounces per acre (0.125 pound a.i. per acre) of Banvel to the above tank mixture.

Risk of crop injury from 2,4-D or Banvel can be reduced by applying this treatment 7 to 14 days before planting.

Refer to the label booklet for Lasso herbicide for preemergence weed control achieved by this tank mixture.

Refer to the specific product labels for crop rotation restrictions and cautionary statements for all products used in these tank mixtures.

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~~Glasse is a registered trademark of Monsanto Company.~~

### AID TO TILLAGE

This product, when used in conjunction with preplant tillage practices, will provide control of downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 8 fluid ounces of this product in 3 to 10 gallons of water per acre. Make applications when weeds are actively growing and before they are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage. Tank mixtures with residual herbicides may result in reduced performance.

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### PASTURES

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Apply this product prior to planting forage grasses and legumes.

**Pasture or Hay Crop Renovation** - When applied as a broadcast spray, this product controls the annual and perennial weeds listed in this label prior to planting forage grasses or legumes. Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

**Spot Treatment** - When applied as a spot treatment as recommended, this product controls annual and perennial weeds listed in this label which are growing in pastures, forage grasses and forage legumes composed of bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa or clover.

**Wiper Application** - When applied as directed, this product controls or suppresses the weeds listed under "WIPER APPLICATORS" in the "SELECTIVE EQUIPMENT" section of this label.

For spot treatment and wiper application, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Further applications may be made in the same area at 30 day intervals. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

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### SUGARCANE

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When applied as directed for "CROPPING SYSTEMS", under the conditions described, this product controls those emerged annual and perennial weeds listed on this label growing in or around sugarcane or in fields to be planted to sugarcane. This product will also control undesirable sugarcane.

**NOTE:** Where repeat treatments are necessary, do not exceed a total of 10.6 quarts of this product per acre per year. Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

**Broadcast Treatment**-Apply this product in 10 to 40 gallons of water per acre on emerged weeds growing in fields to be planted to sugarcane.

For specific rates of application and instructions for control of various annual and perennial weeds, see the "WEEDS CONTROLLED" section of this label.

For removal of last stubble or ratoon cane, apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 or more new leaves. Allow 7 or more days after application before tillage.

**Spot Treatment in or Around Sugarcane Fields**-For dilution and rates of application using hand-held equipment, see the "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" and "WEEDS CONTROLLED" sections of this label.

For control of volunteer or diseased sugarcane, make a 1 percent solution of this product in water and spray to wet the foliage of vegetation to be controlled.

**NOTE:** When spraying volunteer or diseased sugarcane, the plants should have at least 7 new leaves.

Avoid spray contact with healthy cane plants since severe damage or destruction may result.

Do not feed or graze treated sugarcane forage following application.

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**CONSERVATION TILLAGE, MINIMUM TILLAGE AND NO-TILL SYSTEMS  
CORN AND SOYBEANS  
Tank Mixtures**

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The recommendations made in this and subsequent sections of this label are for use in California.

When applied as recommended under the conditions described, the tank mixtures listed in this section control many emerged weeds, and give preemergence control of many annual weeds where corn or soybeans will be planted directly into a cover crop, established sod or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures. For mixing instructions, see the "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" section of this label.

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solutions per acre before, during or after planting. Do not apply these mixtures after crop emergence.

The addition of 1 to 2 percent dry ammonium sulfate by weight may increase the performance of this product.

NOTE: When using these tank mixtures, do not exceed 4 quarts of this product per acre.

### CORN

For residual control, this product may be tank-mixed with the following herbicides or combination of herbicides:

LASSO®/ALACHLOR	ATRAZINE
LARIAT®	CYANAZINE
BULLET®	SIMAZINE
DUAL™	PROWL™
BICEP™	

For improved burndown, this product may be tank-mixed with 2,4-D or dicamba. Applications of 2,4-D or dicamba must be made at least 7 days prior to planting corn. See the "WEEDS CONTROLLED" section for specific rate information.

### SOYBEANS

For residual control, this product may be tank-mixed with the following herbicides or combination of herbicides:

CANOPY™	LOROX™ PLUS
COMMAND™	PREVIEW™
DUAL	PROWL
GEMINI™	TURBO™
LASSO/ALACHLOR	SCEPTER™
LEXONE™	SENCOR™
LINURON	SQUADRON™

For improved burndown, this product may be tank-mixed with the following herbicides:

2,4-DB  
2,4-D\*

See the label for 2,4-D for intervals between application and planting.

### CORN AND SOYBEANS

**Annual Weeds**--For difficult to control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches tall, and 2 to 3 pints when weeds are over 6 inches tall. For a complete list of annual weeds controlled, see the "WEEDS CONTROLLED" section of this label.

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**Perennial Weeds**--At normal application times in minimum tillage systems, perennial weeds may not be at the proper stage of growth for control. See the "WEEDS CONTROLLED" section of this label for the proper stage of growth for perennial weeds.

Use of 2 to 4 quarts of this product per acre in the tank mixtures mentioned above, under these conditions provides top kill and reduces competition from many emerged perennial grass and broadleaf weeds. For emerged perennial weeds controlled, see the "WEEDS CONTROLLED" section of this label.

To obtain the desired stage of growth, it may be necessary to apply this product alone in the late summer or fall and then follow with a label-approved, seedling weed control program at planting.

USE OF THESE TANK MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IN MINIMUM TILLAGE SYSTEMS IS NOT RECOMMENDED. For bermudagrass control, follow the instructions under the "CONTROL OF PERENNIAL WEEDS" section of this label and then use a label-approved, seedling weed control program in a minimum tillage or conventional tillage system. For Johnsongrass control, follow instructions under the "CONTROL OF PERENNIAL WEEDS" section of this label, and then use a label-approved seedling weed control program with conventional tillage.

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~~™Canopy, Bladen, Gemini, Lenox, Lorox Plus and Preview are trademarks of E.I. duPont de Nemours and Company.~~

~~™Dual is a trademark of Ciba-Geigy Corporation.~~

~~™Seneor and Turbo are trademarks of Bayer AG.~~

~~™Prowl, Scepter and Squadron are trademarks of American Cyanamid Company.~~

~~™Command is a trademark of FMC Corporation.~~

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### PREHARVEST APPLICATIONS

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When applied as directed under the conditions described, this product controls annual and perennial weeds listed on this label prior to the harvest of cotton and soybeans.

#### SOYBEANS

Use of this product for preharvest soybeans is not registered in California.

Apply after pods have set and lost all green color. Allow a minimum of 7 days between application and harvest of soybeans. Care should be taken to avoid excessive wheelbarrow or ground application equipment.

Do not graze or harvest treated crop for livestock feed within 30 days of last preharvest application.

DO NOT APPLY MORE THAN 6 QUARTS PER ACRE OF THIS PRODUCT FOR PREHARVEST APPLICATIONS.

~~DO NOT APPLY MORE THAN 1 QUART PER ACRE OF THIS PRODUCT BY AIR.~~

~~For specific rates and application instructions for control of various annual and perennial weeds, see the "WEEDS CONTROLLED" section of this label.~~

~~This product may be applied by both ground and aerial application equipment. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for instructions for ground and aerial applications.~~

~~NOTE: Treatment of soybeans grown for seed is not recommended because a reduction in germination or vigor may occur.~~

### COTTON

~~When applied as directed under the conditions described, this product controls annual and perennial weeds listed on this label prior to the harvest of cotton.~~

**Broadcast Applications**--This product may be applied using either aerial or ground spray equipment. For ground applications with broadcast equipment, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre.

**FOR AERIAL APPLICATIONS, REFER TO THE "APPLICATION EQUIPMENT AND TECHNIQUES" AND "AERIAL EQUIPMENT" SECTIONS OF THIS LABEL.**

~~FOR AERIAL APPLICATIONS IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.~~

**DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR.**

**Weed Control**--For specific rates of application and instructions for control of various annual and perennial weeds for this product used alone or in the following tank mixtures, see the "WEEDS CONTROLLED" section of this label.

To control Johnsongrass using multiple directed or broadcast over the top spray equipment, apply 1 quart of this product in 10 to 20 gallons of water per acre. Ensure complete coverage.

For partial control of field bindweed, apply 1 quart of this product in 3 to 20 gallons of water per acre. Apply when bindweed is actively growing and 12 inches or greater in length. Reduced performance may result if bindweed is under drought stress.

### TANK MIXTURES

HONCHO PROTOCOL plus DEF™ 6  
HONCHO PROTOCOL plus FOLEX™  
HONCHO PROTOCOL plus PREP™  
HONCHO PROTOCOL plus PREP plus DEF 6 or FOLEX

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When applied as recommended under the conditions described, these tank mixtures control annual and perennial weeds listed on this label prior to the harvest of cotton. For application guidelines, precautions and use-rates, refer to the Def, Folex and Prep labels.

This product when tank mixed with Def 6 or Folex defoliants may provide enhancement of cotton leaf drop and regrowth inhibition.

**Timing of Application**--Apply this product or these tank mixtures for preharvest weed control after 60 percent of the cotton bolls have opened.

**NOTE:** DO NOT APPLY TO CROPS GROWN FOR SEED. Allow a minimum of 7 days between application and harvest. Do not feed or graze treated cotton forage or hay following preharvest applications.

~~Def is a trademark of Mobay Chemical Company~~  
~~Folex and Prep are trademarks of Rhone-Poulenc, Inc.~~

### TREE AND VINE CROPS

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This product is recommended for weed control in established groves, vineyards, ~~or~~ orchards, or for site preparation prior to transplanting crops listed in this section. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, ~~or~~ orchard guns, or with wiper applicator equipment, except as directed in this section. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for specific information on use of equipment.

When applying this product, refer to the "WEEDS CONTROLLED" section of this label and to specific recommendations in this section for rates to be used.

#### NOTE

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual weed control. For subsequent weed control, use repeated applications of this product. Do not apply more than 10.6 quarts of this product per acre per year.

**EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.**

**AVOID PAINTING OUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.**

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

For specific rates of applications and instructions, see the "WEEDS CONTROLLED" section of this label, and to specific recommendations which follow.

MIDDLES MANAGEMENT

FOR ANNUAL WEEDS IN MIDDLES BETWEEN ROWS OF TREE AND VINE CROPS

For citrus crops treat uniformly between trees.

■ HONCHO ■  
■ HONCHO plus GOAL ■

This product alone or in mixtures with Goal will control or suppress the annual weeds listed below.

Apply the recommended rates of this product, either alone or in mixtures with Goal, in 3 to 10 gallons of water per acre. Apply when weeds are actively growing and less than 6 inches in height or rosette diameter. If weeds are under drought stress, irrigate prior to application. Reduced control may occur if weeds have been mowed prior to application. Up to 48 fluid ounces per acre of this product may be used to control weeds which have been mowed, are stressed or are growing in dense populations.

WEED SPECIES	MAXIMUM HEIGHT/DIAMETER (INCHES)	RATE PER ACRE	
		HONCHO (FLUID OUNCES)	GOAL (FLUID OUNCES)
Barley <i>Hordeum vulgare</i>	6	8	--
Bluegrass, annual <i>Poa annua</i>			
Barnyardgrass <i>Echinochloa crus-galli</i>	6	12	--
Chickweed, common <i>Stellaria media</i>			
Red Maids <i>Calandrinia ciliata</i>			
Crabgrass <i>Digitaria spp.</i>	6	16	--
Fleabane, hairy <i>Conyza bonariensis</i>			OR
Groundsel, common <i>Senecio vulgaris</i>		16 to 32	+ 4 to 16**
Junglerice <i>Echinochloa colonum</i>			
Lambsquarters, common <i>Chenopodium album</i>			

**Pigweed, redroot**  
*Amaranthus retroflexus*  
**Rocket, London**  
*Sisymbrium irio*  
**Ryegrass, common**  
*Lolium multiflorum*  
**Shepherdspurse**  
*Capsella bursa-pastoris*  
**Sowthistle, annual**  
*Sonchus oleraceus*

---

<b>Cheeseweed, common</b>	3	12 to 32	+	4 to 16
<i>Malva spp.</i>				

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<b>Cheeseweed, common</b>	6	16 to 32	+	4 to 16
<i>Malva spp.</i>				
<b>Filaree*</b>				
<i>Erodium spp.</i>				
<b>Horseweed/Marestail</b>				
<i>Conyza canadensis</i>				
<b>Nettle, stinging</b>				
<i>Urtica dioica</i>				
<b>Purselane, common*</b>				
<i>Portulaca oleracea</i>				

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\* Suppression only

\*\*The mixture of this product plus Goal is recommended when weeds are stressed or growing in dense populations.

### STRIPS

#### FOR ANNUAL AND PERENNIAL WEEDS IN STRIPS OF TREE AND VINE CROPS

#### ■ TANK MIXTURES WITH RESIDUAL HERBICIDES ■

When applied as a tank mixture, this product provides control of the emerged annual weeds and control or suppression of emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of those weeds listed in the individual product labels.

- HONGHO ~~PROTOCOL~~ plus GOAL 1.6E ■
- HONGHO ~~PROTOCOL~~ plus KARMEX™ DF ■
- HONGHO ~~PROTOCOL~~ plus KROVAR I ■
- HONGHO ~~PROTOCOL~~ plus KROVAR II ■
- HONGHO ~~PROTOCOL~~ plus SIMAZINE, PRINCEP CALIBER 90 ■
- HONGHO ~~PROTOCOL~~ plus SIMAZINE 4L ■
- HONGHO ~~PROTOCOL~~ plus SIMAZINE 80W ■

- HONGCHO ~~PROFOTO~~ plus SOLICAM<sup>SM</sup> 80DF ■
- HONGCHO ~~PROFOTO~~ plus SURFLAN AS ■
- HONGCHO ~~PROFOTO~~ plus SURFLAN 75W ■
- HONGCHO ~~PROFOTO~~ plus SIMAZINE (80W, or 4L, or PRINCEP CALIBER 90) plus SURFLAN (AS or 75W) ■
- HONGCHO ~~PROFOTO~~ plus GOAL (1.6E) plus SURFLAN (AS or 75W) ■
- HONGCHO ~~PROFOTO~~ plus GOAL (1.6E) plus SIMAZINE (80W, or 4L, or PRINCEP CALIBER 90) ■
- HONGCHO ~~PROFOTO~~ plus GOAL (1.6E) plus SURFLAN (AS or 75W) plus SIMAZINE (80W, 4L, or PRINCEP CALIBER 90) ■

Do not apply these tank mixtures in Puerto Rico.

Refer to the individual product labels for specific crops, rates, geographical restrictions and precautionary statements.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products.

~~MARKEM is a trademark of E.I. duPont de Nemours and Company.~~

**RECOMMENDED RATES**

Annual Weeds - Apply 1 to 5 quarts per-acre of this product ~~per acre~~ in these tank mixtures. Use rates at the higher end of the recommended range when weeds are stressed, growing in dense populations or are greater than 12 inches tall.

Perennial Weeds - Apply 1 pint to 5 quarts per-acre of this product ~~per acre~~ in these tank mixtures to control or suppress perennial weeds. Follow the recommendations in the "WEEDS CONTROLLED" section of this label for stage of growth and application rates for specific perennial weeds.

- HONGCHO ~~PROFOTO~~ plus GOAL plus SIMAZINE/SURFLAN ■

This product plus low rates of Goal in three-way or four-way mixtures with simazine and/or Surflan will provide postemergence control of the weeds listed below.

Refer to the individual simazine and Surflan labels for preemergence rates, weeds controlled, precautionary statements and other important information.

Apply 1 to 5 quarts per-acre of this product ~~per acre~~ plus 4 to 48 fluid ounces per acre of Goal plus labeled rates of simazine and/or

Surflan in 3 to 40 gallons of water per acre to control the following weeds:

- Barley, wild**  
*Hordeum leporinum*
- Bluegrass, annual**  
*Poa annua*
- Cheeseweed, common**  
*Malva spp.*
- Chickweed, common**  
*Stellaria media*
- Filaree\***  
*Erodium spp.*
- Fleabane, hairy**  
*Conyza bonariensis*
- Groundsel, common**  
*Senecio vulgaris*
- Horseweed/Marestail**  
*Conyza canadensis*
- Nettle, stinging**  
*Urtica dioica*
- Pineappleweed**  
*Matricaria matricariodes*
- Rocket, London**  
*Sisymbrium irio*
- Shepherdspurse**  
*Capsella bursa-pastoris*
- Sowthistle, annual**  
*Sonchus oleraceus*

\*Use a minimum of 1.5 quarts of this product in these mixtures.

NOTE: This recommendation does not preclude the use of Goal in these mixtures at higher, labeled rates for preemergence weed control.

■ PERENNIAL GRASS SUPPRESSION ORCHARD FLOORS ■

When applied as directed, this product will suppress vegetative growth as indicated below.

Bahiagrass

This product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with a single application and approximately 120 days with sequential applications. Apply this product 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 6 fluid ounces of this product in 10 to 25 gallons of water per acre.

Sequential applications of this product may be made at approximately 45-day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first

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sequential application, apply 4 fluid ounces of this product per acre. A second sequential application of 2 to 4 fluid ~~ounces~~ per acre may be made approximately 45 days after the last application.

### Bermudagrass

For burndown, apply 1 to 2 quarts of this product in 3 to 20 gallons of water per acre. Use 1 quart in 3 to 20 gallons of water per acre east of the Rocky Mountains. Use 1 to 2 quarts of this product in 3 to 10 gallons of water per acre west of the Rocky Mountains. Use this treatment only if reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur.

**Suppression only - (east of the Rocky Mountains).** Apply 6 to 16 fluid ounces of this product in 3 to 20 gallons of water per acre no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Rates of 6 to 10 fluid ounces should be used where a lesser degree of suppression is desired. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

**Suppression only - (west of the Rocky Mountains).** Apply 16 fluid ounces of this product in 3 to 10 gallons of water per acre to bermudagrass up to 6 inches in height and no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

### Cool-Season Grass Covers

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 8 fluid ounces of this product in 10 to 20 gallons of water per acre. For best suppression, add ammonium sulfate to the spray solution at a rate of 2 percent by weight or 17 pounds per 100 gallons of spray solution.

For suppression of Kentucky bluegrass covers, apply 6 fluid ounces of this product per acre. Do not add ammonium sulfate.

For best results, mow cool-season grass cover in the spring to even the height and apply the recommended rate of this product 3 to 4 days after mowing. Avoid treating cool-season grass covers under poor growing conditions, such as drought stress (drip irrigation), disease or insect damage.

### **LOW-VOLUME APPLICATION (Florida and Texas)**

For burndown or control of the weeds listed, apply the recommended rate of this product in 3 to 30 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre.

### **Annual Weeds**

Goatweed--Apply 2 to 3 quarts per acre of this product plus 17 pounds of ammonium sulfate per 100 gallons of water. Apply in 20 to 30 gallons of water per acre when plants are actively growing. Use 2 quarts per acre when plants are less than 8 inches tall and 3 quarts per acre when plants are greater than 8 inches. If goatweed is greater than 8 inches, the addition of Krovar II or Karmex may improve control. Use labeled rates for these residual products.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the Krovar II and Karmex labels.

**Perennial Weeds**

Apply when weeds are actively growing and at the growth stages listed in the "PERENNIAL WEEDS CONTROLLED" section of this label. If perennial weeds are mowed, allow weeds to regrow to the recommended stage of growth.

S=Suppression    B=Burndown    C=Control  
PC=Partial control

WEED SPECIES	BONCHOO <del>100% 100% 100%</del> RATE PER ACRE			
	1 qt	2 qt	3 qt	5 qt
Bermudagrass	B	.	PC	C
Guineagrass				
Texas and Florida Ridge	B	C	C	C
Florida Flatwoods	.	B	C	C
Paragrass	B	C	C	C
Torpedograss	S	.	PC	C

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~~Goal is a trademark of Rohm and Haas Company.~~  
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~~Solican is a trademark of Sandos, Inc.~~  
~~Surflan is a trademark of Elanco Products Company.~~

**TREE CROPS**

**Citrus\*:** ~~alamogain, chironis~~ citron, grapefruit, kumquat, lemon, lime, ~~mandarin, orange~~ orange, pummelo, tangelo, tangerine, tangors.

**Nuts\*\*:** almond, ~~bechnut, Brazil nut, butternut, chestnut~~ chestnuts, ~~macadamia, pecan~~ filbert, ~~macadamia, pecan~~ macadamia, pecan, pistachio, walnut.

**Pome Fruit\*:** apple, ~~apple, pear~~ pear, ~~pear~~

**Stone Fruit\*\*\*:** apricots, cherries, nectarines, olives, peaches, plums/prunes.

For cherries, any application equipment listed in this section may be used in all states.

For citron and olives, apply as a directed spray only.

Any application equipment listed in this section may be used in apricots, nectarines, peaches, and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, North Dakota, Oklahoma, Oregon, Texas, Utah, and Washington, except for peaches grown in the states specified in the following paragraph. In all other states use wiper equipment only.

For PEACHES grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee only, apply with a shielded boom sprayer or shielded wiper applicator which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low-hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near trees which have been planted in the orchard for 2 or more years. EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED.

Tropical Fruit: acerola, atemoya\*, avocado\*, banana (plantains), breadfruit\*, canistel\*, carambola\*, coffee\*\*\*\*, dates\*, figs\*, guava\*\*\*, jaboticaba\*, jackfruit\*, longan\*, lychee\*, mango\*, papaya, passion fruit\*, persimmons\*, sapodilla, sapote, soursop, sugar apple\*, tamarind, tea. Allow a minimum of 1 day between last application and harvest of guava and papaya. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.

NOTE:

\* Allow a minimum of 14 days between last application and harvest.

\*\* Allow a minimum of 21 days between last application and harvest.

\*\*\* Allow a minimum of 17 days between last application and harvest.

\*\*\*\* Allow a minimum of 28 days between last application and harvest.

~~Allow a minimum of 1 day between last application and harvest.~~

VINE CROPS

Riwi Fruit

Grapes: Any variety of table, wine or raisin grape may be treated with any equipment listed in this section.

~~In the northeast and Great Lakes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury.~~

NOTE:

Applications should not be made when green shoots, canes or foliage are in the spray zone.

Allow a minimum of 14 days between last application and harvest.

~~In the northeast and Great Lakes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury.~~

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**Product is protected by  
U.S. Pat. No. 4,405,531.  
Other patents pending.  
No license granted under any non-U.S. patent(s).**

**EPA Reg. No. 524-326**

**~~892-67-000-111/53~~**

**In case of an emergency involving this product, Call  
Collect, day or night, (314) 694-4000.**

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**MONSANTO COMPANY  
AGRICULTURAL PRODUCTS  
ST. LOUIS, MISSOURI 63167 U.S.A.**

120 - 9 1993

**Dr. Sheila A. Schuette**  
**Monsanto Company**  
**700 14th Street, N.W., Suite 1100**  
**Washington, D.C. 20005**

**Dear Dr. Schuette:**

**Subject: Protocol Herbicide (Aerial Application in Fresno County, California)**  
**EPA Registration No. 524-326**  
**Your Application Dated November 22, 1993**

The labeling submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable. Please submit five (5) copies of your final printed labeling before you release the product for shipment.

Note that this labeling does not bear the required Worker Protection statements as outlined in PR Notices 93-7 and 93-11. We note that you have submitted labels in accordance with the instructions in those Notices. The new protective language in those submissions must be melded into this label for any shipments released after the deadlines that have been established. You may opt to do so immediately if you are electing the self-verification option, or after acceptance by the special Agency Worker Protection Standard review group. Finished printed labels should be submitted after acceptance by the WPS group and in accordance with their instructions.

Sincerely,

*UKW*  
Robert J. Taylor  
Product Manager 25  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

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# SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL FOR PROTOCOL® HERBICIDE AND THE "FOR AERIAL APPLICATION IN CALIFORNIA ONLY" SUPPLEMENTAL LABEL BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Protocol herbicide, the "FOR AERIAL APPLICATION IN CALIFORNIA ONLY" supplemental label, and this supplement.

## PROTOCOL® Herbicide by Monsanto

(EPA Reg. No. 524-326)

### FOR AERIAL APPLICATION IN FRESNO COUNTY, CA ONLY From February 15, through March 31 only.

For aerial application outside these dates, refer to the "FOR AERIAL APPLICATION IN CALIFORNIA ONLY" statewide supplemental label.

ACCEPTED  
in EPA Letter Dated:  
DEC - 9 1993

Keep out of reach of children.

## CAUTION!

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 524-326

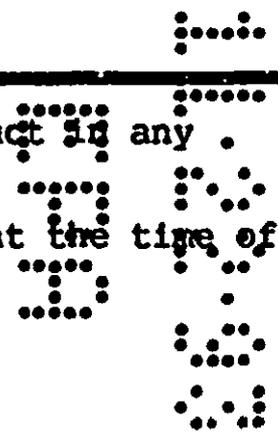
In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Protocol® is a registered trademark of Monsanto Company.

### DIRECTIONS FOR USE

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

This label must be in the possession of the user at the time of the herbicide application.



See the "GENERAL INFORMATION" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of the label booklet for essential product information.

See the "CROPPING SYSTEMS" section of the label booklet for specific recommendations on the use of this product.

**Applicable Area**

This supplement only applies to the area contained inside the following boundaries within Fresno County, California only.

- North: Fresno County line
- South: Fresno County line
- East: State Highway 99
- West: Fresno County line

**General Information**

Always read and follow the label directions and precautionary statements for all products used in the aerial application.

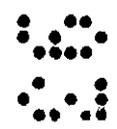
Observe the following directions to minimize off-site movement during aerial application of Protocol herbicide. Minimization of off-site movement is the responsibility of the grower, Pest Control Advisor, and aerial applicator.

**Written Recommendations**

A written recommendation MUST be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24-hours prior to the application. This written recommendation MUST state the proximity of surrounding crops, and that conditions of each manufacturer's applicable product label(s) and this label have been satisfied.

**Aerial Applicator Training and Equipment**

Aerial application of Protocol herbicide is limited to pilots who have successfully completed a Fresno County Agricultural Commissioner and California Department of Pesticide Regulation approved training program for aerial application of herbicides. All aircraft must be inspected, critiqued in flight, and certified at a Fresno County Agricultural Commissioner approved fly-in. Test and calibrate spray equipment at intervals sufficient to insure that proper rates of herbicides and adjuvants are being applied during commercial use. Applicator must document such calibrations and testing. Demonstration of performance at Fresno County Agricultural Commissioner approved "fly-ins" constitutes such documentation, or other written records showing calculations and measurements of flight and spray parameters acceptable to the Fresno County Agricultural Commissioner.



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**Application at night** - Do not apply this product by air earlier than 30 minutes prior to sunrise and/or later than 30 minutes after sunset without prior permission from the Fresno County Agricultural Commissioner.

**To report known or suspected misuse of Protocol herbicide** call 1-800-ROUNDUP

**For additional information on the proper aerial application of Protocol herbicide** call 916/784-1718.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label for Protocol herbicide before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

MAP-

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