



Harmony®

HERBICIDE

ACTIVE INGREDIENT:

Methyl 3-[[[(4-methoxy-5-methyl-1,3,5-thiazin-2-ylidene)carbonyl]amino]-sulfonyl]-2-thiophenecarboxylate

78%
INERT INGREDIENTS 22%

U.S. Patent 4,481,029

EPA Reg. No. 352-446

EPA Est. 352-WV-1

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

CAUTION!

Avoid contact with skin, eyes and clothing. In case of contact with eyes, immediately flush with plenty of water. Get medical attention if irritation persists. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

For medical emergencies involving this product, call toll free 1-800-441-3637.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

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AGRICULTURAL PRODUCTS DEPT., WILM., DE 19880
AG-1591 8017 Printed in U.S.A. Made in U.S.A.

IMPORTANT

Injury to or loss of desirable trees or vegetation may result from failure to observe the following: Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Thoroughly clean all traces of Du Pont "Harmony" Herbicide from application equipment immediately after use. (Refer to SPRAYER CLEANUP section of this label.)

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

STORAGE AND DISPOSAL

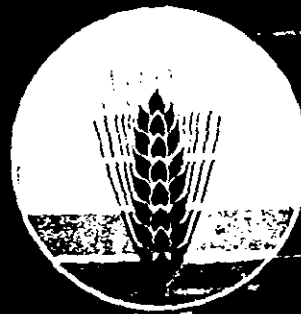
STORAGE: Store product in original container, only, away from other pesticides, fertilizer, food or feed.

DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Triple-rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



Harmony®

HERBICIDE



SEE ACCOMPANYING DIRECTIONS FOR USE

**DRY
FLOWABLE**

NET 10 oz

DIRECTIONS FOR USE



Harmony® HERBICIDE DRY FLOWABLE

ACTIVE INGREDIENT:
Methyl 3-[[[4-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbon, [amino]-sulfonyl]-2-thiophenecarboxylate 75%
INERT INGREDIENTS 25%
S. Patent 4,481,029 EPA Reg. No. 352-446

KEEP OUT OF REACH OF CHILDREN PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS CAUTION!

Avoid contact with skin, eyes, and clothing. In case of contact with eyes, immediately flush with plenty of water. Get medical attention if irritation persists. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

For medical emergencies involving this product, call toll free 1-800-441-3637.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

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AGRICULTURAL PRODUCTS DEPARTMENT
WILMINGTON, DELAWARE 19898
AG-2974 8048

DIRECTIONS FOR USE

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

Harmony® Herbicide should be used only in accordance with recommendations on this label or in separately published DuPont recommendations.

DuPont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by DuPont.

IMPORTANT INFORMATION

Injury to or loss of desirable trees or vegetation may result from failure to observe the following: Do not apply or run or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Thoroughly clean all traces of DuPont Harmony herbicide from application equipment immediately after use. (Refer to Sprayer Cleanup Section of this label.) Failure to follow these procedures may result in injury to subsequently sprayed crops.

GENERAL INFORMATION

DuPont Harmony® herbicide is recommended for selective postemergence control of certain broadleaf weeds in wheat (including durum) and barley. Harmony is a water dispersible granule to be mixed in water or other recommended carrier and applied as a uniform broadcast spray. It is noncorrosive, nonflammable, nonvolatile, and does not freeze.

Best results are obtained when Harmony is applied to young, actively growing weeds. The use rate will depend on weed spectrum and size of weed at time of application. The degree of control and duration of effect are dependent on rate used, sensitivity and size of target weed, and environmental conditions at the time of and following application. Harmony stops growth of susceptible weeds rapidly. However, typical symptoms of dying weeds (discoloration) may not be noticeable for 1-3 weeks after application (2-5 weeks for wild garlic) depending on the environmental conditions and weed susceptibility. Warm, moist conditions following treatment promote the activity of Harmony, while cold, dry conditions delay the activity. Weeds hardened off by cold weather or drought stress will be less susceptible.

Read and follow all appropriate sections of label, including Precautions, before using this product.

CROP STAGE AT APPLICATION

For winter wheat, make applications after the crop is in the 2-leaf stage, but before the 3rd node is detectable (Zadoks 12 through 32).

For spring wheat and barley, make applications after the crop is in the 2-leaf stage, but before the 1st node is detectable (Zadoks 12 through 30).

APPLICATION RATES

Apply 1.2 ounce Harmony per acre to wheat (including durum) or barley for control or partial control of the weeds listed below.

Use 2.3 ounce Harmony per acre when weed infestation is heavy and predominately consists of those weeds listed under partial control, or when application timing and environmental conditions are marginal (refer to APPLICATION AND ENVIRONMENTAL CONDITIONS FOR OPTIMUM PERFORMANCE).

Use 1.3 ounce Harmony per acre when weed infestation is light and predominately consists of those weeds listed under weeds controlled, and when optimum application conditions occur.

WEEDS CONTROLLED

Annual ryegrass	Marestail
Annual wild rye	Meadow chickweed
Barnyard grass	Muesli grass
Bullgrass	Pennsylvania smartweed
Canada goose	Redtop grass
Common buckwheat	Redtop
Common chickweed	Russet knotweed
Common groundsel	Scotch thistle
Common lamb's quarters	Seedling mayweed
Common milkweed	Sphered spurge
Cornflower	Small flower buttercup
Cornflower	Stinking mayweed
Cornflower	Thistle
Cornflower	Swamp smartweed
Cornflower	Summer grass
Cornflower	Tarweed
Cornflower	Volunteer sunflower
Cornflower	Wild buckwheat
Cornflower	Wild cranberry
Cornflower	Wild garlic
Cornflower	Wild mustard

PARTIAL CONTROL*

NOT LISTED

In accordance with PR Notice 82-2, Based on Draft Labeling Dated 4/1/88

*See SPECIFIC WEED PROBLEMS for more information.

*Partial control: A visual reduction of weed populations as well as a significant loss of vigor for individual weed plants. For best results, use 1.2 or 2.3 ounce Harmony per acre.

SPECIFIC WEED PROBLEMS

Common chickweed, wild buckwheat and kochia: For best results, apply a minimum of 1.2 ounce Harmony per acre plus surfactant when all or the majority of weeds have germinated and are past the cotyledon stage. For common chickweed and wild buckwheat, weeds should be less than 3 inches tall or across at the time of Harmony application.

Wild garlic: For best results, apply 1/2 to 2/3 ounce Harmony per acre plus surfactant when wild garlic plants are less than 12 inches tall with 4 to 6 inches of new growth. Control is enhanced when applications are made during warm temperatures (60° F. or more) to actively growing wild garlic plants. Although aerial bulblet formation will be controlled, typical symptoms of dying wild garlic plants (discoloration and collapse) may not be noticeable for 2-5 weeks.

APPLICATION AND ENVIRONMENTAL CONDITIONS FOR OPTIMUM PERFORMANCE

Crop Stage: For winter wheat, make applications after the crop is in the 2-leaf stage, but before the 3rd node is detectable (Zadoks 12 through 32).

For spring wheat and barley, make applications after the crop is in the 2-leaf stage, but before the 1st node is detectable (Zadoks 12 through 30).

Since thorough coverage is required, avoid crop canopy obstruction of the spray contacting the weed foliage. Make only one application of Harmony in any one crop season.

Pest Stage: Since Harmony has very little or no soil activity, only those weeds that have germinated above the soil surface will be controlled. Consequently, application of Harmony should be made when all or the majority of weeds have germinated. Annual broadleaf weeds should be past the cotyledon stage, actively growing, and less than 4 inches tall or across. Wild garlic plants should be 6 to 12 inches tall with 4 to 6 inches of new growth. See SPECIFIC WEED PROBLEMS for more information on common chickweed, kochia, wild buckwheat and wild garlic.

Application: Foliar absorption is the primary means of Harmony uptake by plants, therefore, thorough spray coverage of weeds is essential.

Weather: Conditions which are conducive to healthy, actively growing plants optimize Harmony weed control performance. Ideal conditions include warm temperatures (60° F. or more) and adequate soil moisture before, during and immediately after application.

Avoid making applications of Harmony to weeds when rainfall is threatening. Rainfall immediately after treatment can wash Harmony off weed foliage and result in reduced weed control effectiveness. Several hours of dry weather are needed to allow Harmony to be absorbed by weed foliage.

Surfactant: Add a nonionic surfactant of at least 80% active ingredient strength at 0.25% vol/vol (1 quart per 100 gallons of water) to the spray solution. Do not use a surfactant in the low desert valleys of Imperial and Riverside counties of California or in Arizona as unacceptable crop injury may occur. When Harmony is applied using liquid nitrogen fertilizer solution as a spray carrier, early crop yellowing and stunting may occur. Consult with local dealer for the proper recommendation regarding the use of a surfactant when liquid nitrogen fertilizer solutions are used as spray carriers. Use only EPA approved surfactants authorized for use on food crops.

EQUIPMENT-SPRAY VOLUMES

Apply using properly calibrated air or ground equipment. Select a spray volume and delivery system that will insure thorough coverage and a uniform spray pattern. Avoid overlapping, and shut off spray booms while starting, turning, slowing or stopping, or injury to the crop may result. Do not apply Harmony through any type of irrigation system.

Spray Equipment: Refer to specific manufacturer's recommendations for additional information on spray volume (GPA), pressure, speed, nozzle types and arrangements, nozzle heights above the target area, etc., for respective application equipment.

Ground Application: For optimum coverage, use flat fan nozzles. For flat fan nozzles, do not spray volume per acre (GPA) greater than 100.

For flood nozzles on 30-inch spacing, use 100 GPA and no larger than 100 GPA. On 40-inch nozzles, use 130 GPA or not less than 20 GPA. For 60-inch spacing, 100 GPA is essential for 30-40 inch spacing.

Raindrop nozzles are recommended for applications as may be reduced.

Use 50-mesh screens or larger on all spray equipment.

Aerial Application: Use only types and arrangements that insure spray distribution and maximum coverage. Do not apply during inversion, gusty, or when other conditions and/or off target spray move.

Liquid Nitrogen Fertilizer Solution: Use liquid nitrogen fertilizer to the spray volume of the total weight of the solution will increase the weight of the solution (see table below). Conversions of spray nozzles made in order to maintain the conversion chart below. Spray Systems Company Catalog.

Influence of adding liquid nitrogen to spray solution.

% of Spray Solution Water	28% N
1.0	0
50	50
100	100

SPRAYING SYSTEMS SPRAYING SOLUTIONS OTHER

Since all the calculations are based on 8.34 lbs per USA gallon of water, when spraying solutions of water, to determine the weight of the spray solution, multiply the weight of the water by the water ratio in the table. Example: 10 GPA (100% water) = 83.4 lbs per acre.

Weight of Solution
70 lbs per acre
80 lbs per acre
83.4 lbs per acre WATER
90 lbs per acre
100 lbs per acre
106 lbs per acre
110 lbs per acre
118 lbs per acre
120 lbs per acre
140 lbs per acre

Published in Spraying Systems Company Catalog

Agitation: Continuous agitation of Harmony in suspension.

NOTE: Do not allow spray to land, as injury to plants is likely to occur. When spraying plants, do everything possible to off target spray movement.

Increase spray volume by GPA by ground. Use lower spray pressure. Add an appropriate drift stop spraying if wind is blowing.

TANK MIXTURES

"Harmony" may be tank mixed with suitable registered herbicides to control weeds other than those listed. Read and follow all manufacturer's label recommendations for the companion herbicide. If these recommendations conflict with this "Harmony" label, do not use as a tank mix with "Harmony".

"Harmony" will not control wild oats or other grasses. For wild oat control, "Harmony" can be tank mixed with Hoelon[®] or "Avenge". For green or yellow foxtail (pigweedgrass) suppression, "Harmony" can be tank mixed with Hoelon. Refer to the Hoelon or "Avenge" label for the proper rate, timing, spray volume, and other recommendations and special instructions. When tank mixing "Harmony" and Hoelon, the addition of a surfactant is not required.

SPRAY PREPARATION

Mix the proper amount of "Harmony" into the necessary volume of water in the spray tank with the agitator running, then add the companion herbicide to the tank after all the "Harmony" is in suspension.

Use the spray preparation of "Harmony" within 24 hours as product degradation may occur. If spray preparation is left standing, thoroughly agitate before reusing.

Surfactant: Add a nonionic surfactant of at least 80% active ingredient strength at 0.25% vol/vol (1 quart per 100 gallons of water) to the spray solution. **Do not use a surfactant in the low desert valleys of Imperial and Riverside counties of California or in Arizona as unacceptable crop injury may occur.** Use only EPA approved surfactants authorized for use on food crops.

Liquid Nitrogen Fertilizer: Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Slurry the desired amount of "Harmony" in a clean bucket using water until a flowable mixture is produced. Add this slurry to the agitating spray tank of liquid nitrogen fertilizer solution. Thoroughly rinse all of the "Harmony" slurry into the spray tank. Do not use "Harmony" in liquid fertilizer solutions of less than pH 3. Run a tank mix compatibility test before mixing "Harmony" in fertilizer solution.

Use of a surfactant in liquid nitrogen fertilizer solutions may cause crop injury (discoloration and stunting). Consult local "Harmony" dealer for the proper recommendation regarding surfactant use in liquid nitrogen fertilizer solutions.

When the spray solution contains liquid nitrogen fertilizer, the weight per gallon of solution varies significantly from the weight of water (8.34 lbs per USA gallon). Consequently, liquid nitrogen fertilizer spray solutions must use the appropriate conversion in order to insure proper spray volume. See EQUIPMENT-SPRAY VOLUMES for further information.

CROP ROTATION

Any crop may be planted 60 days after the application of "Harmony".

SPRAYER CLEANUP

To avoid subsequent injury to crops other than wheat or barley, immediately after spraying thoroughly remove all traces of "Harmony" from mixing and spray equipment as follows:

1. Drain tank, rinse interior surfaces of tank; then flush tank, boom and hoses with clean water for a minimum of 5 minutes.
2. Fill the tank with clean water, then add cleaning solution*. Flush solution through boom, hoses and nozzles, then allow to sit for 15 minutes with agitation running; then drain.
3. Repeat Step 2.
4. Repeat Step 1.
5. Nozzles and screens should then be removed and cleaned separately. To remove traces of cleaning solution, rinse the tank thoroughly with clean water and flush through hoses and boom.

6. Flush boom and hoses with clean water for 5 minutes just prior to using the sprayer for the first time after the "Harmony" application.

*Use any one of the following cleaning solutions:

1. Nutra-Sol (carefully read and follow Nutra-Sol label directions)
2. Loveland Spray Tank Cleaner (carefully read and follow Loveland Spray Tank Cleaner label directions)
3. One-half gallon chlorine bleach (containing 5.25% sodium hypochlorite) per 100 gallons of water
4. One gallon ammonia (containing 3% active) per 100 gallons of water.

CAUTION: Do not use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonia, ammonium nitrate or ammonium sulphate must be rinsed with water from the mixing and application equipment before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odor which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

PRECAUTIONS

"Harmony" cannot be applied more than once to any one crop during one growing season.

Do not graze or feed forage or hay from treated areas to livestock.

Do not plant to any crop other than wheat or barley for 60 days after application of "Harmony".

Do not apply to wheat or barley that is stressed by severe winter, drought, water-saturated soil, disease or insect damage as crop injury may result. Under certain conditions such as prolonged cool weather (daily high temperature less than 50°F.) or wide fluctuations in day/night temperatures just prior to or soon after treatment, temporary yellowing and/or crop stunting may occur. Risk of injury is greatest when crop is in the 2 to 5-leaf stage.

Do not apply to wheat or barley crops underseeded with another crop.

Do not apply "Harmony" to tame oats.

In flood or furrow irrigated fields, if no rain has occurred after "Harmony" treatment (at least 1/2 inch), do not allow tailwater from the first irrigation after "Harmony" application to leave the "Harmony" treated field.

For ground applications applied to weeds when dry, dusty field conditions exist, control of weeds in wheel track areas may be reduced.

The "Harmony" volumetric measuring cylinder is to be used only as a guide, since the degree of accuracy varies by plus or minus 7.5%. For more precise measurement, use scales calibrated in ounces.

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STORAGE AND DISPOSAL

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed.

DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Triple-rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. **DUPONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

*Registered trademark of Delavan Corporation.

*Registered trademark of Hoechst-Roussel Agri-Vet Company.

*Registered trademark of American Cyanamid.

Made in USA

Printed in USA



DU PONT Harmony® HERBICIDE DRY FLOWABLE

ACTIVE INGREDIENT:

Methyl 3-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]-sulfonyl]-2-thiophenecarboxylate 75%
INERT INGREDIENTS 25%
U.S. Patent 4,481,029

KEEP OUT OF REACH OF CHILDREN PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS CAUTION!

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ENVIRONMENTAL HAZARDS

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AGRICULTURAL PRODUCTS DEPARTMENT
WILMINGTON, DELAWARE 19898
AG-2974 8048

DIRECTIONS FOR USE

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GENERAL INFORMATION

Du Pont "Harmony" herbicide is recommended for selective postemergence control of certain broadleaf weeds in wheat (including durum) and barley. "Harmony" is a water dispersible granule to be mixed in water or other recommended carrier and applied as a uniform broadcast spray. It is noncorrosive, nonflammable, nonvolatile, and does not freeze.

Best results are obtained when "Harmony" is applied to young, actively growing weeds. The use rate will depend on weed spectrum and weed size at time of application. The degree of control and duration of effect are dependent on rate used, sensitivity and size of target weed, and environmental conditions at the time of and following application. "Harmony" stops growth of susceptible weeds rapidly. However, typical symptoms of dying weeds (discoloration) may not be noticeable for 1-3 weeks after application (2-5 weeks for wild garlic) depending on the environmental conditions and weed susceptibility. Warm, moist conditions following treatment promote the activity of "Harmony", while cold, dry conditions delay the activity. Weeds hardened off by cold weather or drought stress will be less susceptible.

Read and follow all appropriate sections of label, including Precautions, before using this product.

CROP STAGE AT APPLICATION

For winter wheat, make applications after the crop is in the 2-leaf stage, but before the 3rd node is detectable (Zadoks 12 through 32).

For spring wheat and barley, make applications after the crop is in the 2-leaf stage, but before the 1st node is detectable (Zadoks 12 through 30).

APPLICATION RATES

Apply 1/2 ounce "Harmony" per acre to wheat (including durum) or barley for control or partial control of the weeds listed below.

Use 2/3 ounce "Harmony" per acre when weed infestation is heavy and predominately consists of those weeds listed under partial control, or when application timing and environmental conditions are marginal (refer to APPLICATION AND ENVIRONMENTAL CONDITIONS FOR OPTIMUM PERFORMANCE).

Use 1/3 ounce "Harmony" per acre when weed infestation is light and predominately consists of those weeds listed under weeds controlled, and when optimum application conditions occur.

WEEDS CONTROLLED

Annual knave	Miners lettuce
Annual sowthistle	Mouseear chickweed
Black mustard	Mouseear cress
Bushy wallflower	Pennsylvania smartweed
Treacle mustard	Redroot pigweed
Carolina geranium	Redmaids
Coast liddleneck	Prostrate knotweed
Common buckwheat	Russian thistle
Common chickweed	Scoutless mayweed
Common groundsel	Shepherdspurse
Common lambquarters	Smallflower buttercup
Common mallow	Sinking mayweed
Curley dock	Dogfennel
False chamomile	Swamp smartweed
Field pennycress	Swinecress
Flaxweed	Tarweed liddleneck
Green smartweed	Volunteer sunflower
Kochia*	Wild buckwheat*
Ladysthumb	Wild chamomile
London rocket	Wild garlic*
Matricaria mallow	Wild mustard

PARTIAL CONTROL**

Common cocklebur
Common sunflower
Curled eveningprimrose
Henbit
Prickly lettuce
Tansymustard
Wild radish

*See SPECIFIC WEED PROBLEMS for more information.

**Partial control: A visual reduction of weed population as well as a significant loss of vigor for individual weed plants. For best results, use 1/2 or 2/3 ounce "Harmony" per acre.

SPECIFIC WEED PROBLEMS

Common chickweed, wild buckwheat and kochia: For best results, apply a minimum of 1/2 ounce "Harmony" per acre plus surfactant when all or the majority of weeds have germinated and are past the cotyledon stage. For common chickweed and wild buckwheat, weeds should be less than 3 inches tall or across at the time of "Harmony" application.

Wild garlic: For best results, apply 1/2 to 2/3 ounce "Harmony" per acre plus surfactant when wild garlic plants are less than 12 inches tall with 4 to 6 inches of new growth. Control is enhanced when applications are made during warm temperatures (60°F or more) to actively growing wild garlic plants. Although aerial bulb formation will be controlled, typical symptoms of dying wild garlic plants (discoloration and collapse) may not be noticeable for 2-5 weeks.

APPLICATION AND ENVIRONMENTAL CONDITIONS FOR OPTIMUM PERFORMANCE

Crop Stage: For winter wheat, make applications after the crop is in the 2-leaf stage, but before the 3rd node is detectable (Zadoks 12 through 32).

For spring wheat and barley, make applications after the crop is in the 2-leaf stage, but before the 1st node is detectable (Zadoks 12 through 30).

Since thorough coverage is required, avoid crop canopy obstruction of the spray contacting the weed foliage. Make only one application of "Harmony" in any one crop season.

Plant Stage: Since "Harmony" has very little or no soil activity, only those weeds that have germinated above the soil surface will be controlled. Consequently, application of "Harmony" should be made when all or the majority of weeds have germinated. Annual broadleaf weeds should be past the cotyledon stage, actively growing, and less than 4 inches tall or across. Wild garlic plants should be 6 to 12 inches tall with 4 to 6 inches of new growth. See SPECIFIC WEED PROBLEMS for more information on common chickweed, kochia, wild buckwheat and wild garlic.

Application: Foliar absorption is the primary means of "Harmony" uptake by plants, therefore, thorough spray coverage of weeds is essential.

Weather: Conditions which are conducive to healthy, actively growing plants optimize "Harmony" weed control performance. Ideal conditions include warm temperatures (60°F or more) and adequate soil moisture before, during and immediately after application.

Avoid making applications of "Harmony" to weeds when rainfall is threatening. Rainfall immediately after treatment can wash "Harmony" off weed foliage and result in reduced weed control effectiveness. Several hours of dry weather are needed to allow "Harmony" to be absorbed by weed foliage.

Surfactant: Add a nonionic surfactant of at least 80% active ingredient strength at 0.25% vol/vol (1 quart per 100 gallons of water) to the spray solution. Do not use a surfactant in the low desert valleys of Imperial and Riverside counties of California or in Arizona as unacceptable crop injury may occur. When "Harmony" is applied using liquid nitrogen fertilizer solution as a spray carrier, early crop yield and stunting may occur. Consult with local dealer for the proper recommendation regarding the use of a surfactant when liquid nitrogen fertilizer solutions are used as spray carriers. Use only EPA approved surfactants authorized for use on food crops.

EQUIPMENT-SPRAY VOLUMES

Apply using properly calibrated air or ground equipment. Select a spray volume and delivery system that will insure thorough coverage and a uniform spray pattern. Avoid over-lapping, and shut off spray booms while starting, turning, slowing or stopping, or injury to the crop may result. Do not apply "Harmony" through any type of irrigation system.

Spray Equipment: Refer to specific manufacturer's recommendations for additional information on spray volume (GPA), pressure, speed, nozzle types and arrangements, nozzle heights above the target area, etc., for respective application equipment.

Ground Application: For optimum spray distribution and thorough coverage, use flat fan or low volume flood nozzles. For flat fan nozzles, do not use less than 5 gallon spray volume per acre (GPA).

For flood nozzles on 30-inch spacing, use not less than 10 GPA and no larger than 18 GPA or equivalent and not less than 30 psi. On 40-inch nozzle spacings, use not less than 13 GPA or not less than 20 GPA when nozzles are on a 60-inch spacing. 100% overlapping of nozzle spray pattern is essential for 30, 40 and 60-inch spacings.

"Raindrop" nozzles are not recommended for "Harmony" applications as weed control performance may be reduced.

Use 50-mesh screens or larger.

Aerial Application: Use orifice discs, cores and nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage at 3 to 5 GPA. Do not apply during inversion conditions, when winds are gusty, or when other conditions will favor poor coverage and/or off target spray movement.

Liquid Nitrogen Fertilizer Solutions: The addition of liquid nitrogen fertilizer to the spray solution, or the use of liquid nitrogen fertilizer as the total carrier of the spray solution will increase the weight of the spray solution as compared to water (see table below). Consequently, appropriate conversions of spray nozzles and/or pressure must be made in order to maintain proper spray volumes. Refer to the conversion chart below for guidance (taken from Spray Systems Company Catalog 39, page 2).

Influence of adding liquid 28% N fertilizer to spray solution weight per gallon

% of Spray Solution Water	28% N	Weight of Spray Solution (Lbs/Gal)
100	0	8.34
50	50	9.5
0	100	10.6

SPRAYING SYSTEMS CONVERSION CHART

SPRAYING SOLUTIONS OTHER THAN WATER—NEW METHOD

Since all the tabulations are based on spraying water, which weighs 8.34 lbs. per USA gallon, conversion factors must be used when spraying solutions which are heavier or lighter than water. To determine the proper size nozzle for the solution to be sprayed, first multiply the desired GPA or GPA of solution by the water rate conversion factor. Then use the new converted GPA or GPA rate to select the proper size nozzle.

Example: 10 GPA (28%N) × 1.13 = 11.3 GPA (water)

Weight of Solution	Specific Gravity	Conversion Factors
7.0 lbs per gallon	.84	.92
8.0 lbs per gallon	.96	.98
8.34 lbs per gallon WATER	1.00	1.00
9.0 lbs per gallon	1.08	1.04
10.0 lbs per gallon	1.20	1.10
10.65 lbs per gallon 28% nitrogen	1.28	1.13
11.0 lbs per gallon	1.32	1.15
12.0 lbs per gallon	1.44	1.20
14.0 lbs per gallon	1.68	1.30

Published in Spraying Systems Company Catalog 39, page 2

Agitation: Continuous agitation is required to keep "Harmony" in suspension.

NOTE: Do not allow spray to drift onto adjacent crops or land, as injury to plants other than wheat and barley will likely occur. When spraying close to adjacent crops or plants, do everything possible to reduce the occurrence of off target spray movement such as:

Increase spray volume (minimum 5 GPA by air, 1 GPA by ground).

Use lower spray pressure (but not less than 20 psi).

Add an appropriate drift control agent.

Stop spraying if wind speed becomes excessive.

TANK MIXTURES

"Harmony" may be tank mixed with suitable registered herbicides to control weeds other than those listed. Read and follow all manufacturer's label recommendations for the companion herbicide. If these recommendations conflict with this "Harmony" label, do not use as a tank mix with "Harmony".

"Harmony" will not control wild oats or other grasses. For wild oat control, "Harmony" can be tank mixed with "Hoelon" or "Avenge". For green or yellow foxtail (pigweed) suppression, "Harmony" can be tank mixed with "Hoelon". Refer to the "Hoelon" or "Avenge" label for the proper rate, timing, spray volume, and other recommendations and special instructions. When tank mixing "Harmony" and "Hoelon", the addition of a surfactant is not required.

SPRAY PREPARATION

Mix the proper amount of "Harmony" into the necessary volume of water in the spray tank with the agitator running; then add the companion herbicide to the tank after all the "Harmony" is in suspension.

Use the spray preparation of "Harmony" within 24 hours as product degradation may occur. If spray preparation is left standing, thoroughly agitate before reusing.

Surfactant: Add a nonionic surfactant of at least 80% active ingredient strength at 0.25% vol/vol (1 quart per 100 gallons of water) to the spray solution. Do not use a surfactant in the low desert valleys of Imperial and Riverside counties of California or in Arizona as unacceptable crop injury may occur. Use only EPA approved surfactants authorized for use on food crops.

Liquid Nitrogen Fertilizer: Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Slurry the desired amount of "Harmony" in a clean bucket using water until a flowable mixture is produced. Add this slurry to the agitating spray tank of liquid nitrogen fertilizer solution. Thoroughly rinse all of the "Harmony" slurry into the spray tank. Do not use "Harmony" in liquid fertilizer solutions of less than pH 3. Run a tank mix compatibility test before mixing "Harmony" in fertilizer solution.

Use of a surfactant in liquid nitrogen fertilizer solutions may cause crop injury (discoloration and stunting). Consult local "Harmony" dealer for the proper recommendation regarding surfactant use in liquid nitrogen fertilizer solutions.

When the spray solution contains liquid nitrogen fertilizer, the weight per gallon of solution varies significantly from the weight of water (8.34 lbs per USA gallon). Consequently, liquid nitrogen fertilizer spray solutions must use the appropriate conversion in order to insure proper spray volume. See EQUIPMENT-SPRAY VOLUMES for further information.

CROP ROTATION

Any crop may be planted 60 days after the application of "Harmony".

SPRAYER CLEANUP

To avoid subsequent injury to crops other than wheat or barley, immediately after spraying thoroughly remove all traces of "Harmony" from mixing and spray equipment as follows:

1. Drain tank; rinse interior surfaces of tank; then flush tank, boom and hoses with clean water for a minimum of 5 minutes.
2. Fill the tank with clean water, then add cleaning solution. Flush solution through boom, hoses and nozzles, then allow to sit for 15 minutes with agitation running, then drain.
3. Repeat Step 2.
4. Repeat Step 1.
5. Nozzles and screens should then be removed and cleaned separately. To remove traces of cleaning solution, rinse the tank thoroughly with clean water and flush through hoses and boom.

6. Flush boom and hoses with water for 5 minutes just prior to using the spray. "Harmony" application.

Use any one of the following cleaning solutions

1. Nutra-Sol (carefully read and follow Nutra-Sol label directions)
2. Loveland Spray Tank Cleaner (carefully read and follow Loveland Spray Tank Cleaner label directions).
3. One-half gallon chlorine bleach (containing 5% sodium hypochlorite) per 100 gallons of water
4. One gallon ammonia (containing 3% active) per 100 gallons of water.

CAUTION: Do not use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonia, ammonium nitrate or ammonium sulphate must be rinsed with water from the mixing and application equipment before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odor which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

PRECAUTIONS

"Harmony" cannot be applied more than once to anyone crop during one growing season.

Do not graze or feed forage or hay from treated areas to livestock.

Do not plant to any crop other than wheat or barley for 60 days after application of "Harmony".

Do not apply to wheat or barley that is stressed by severe winter, drought, water-saturated soil, disease or insect damage as crop injury may result. Under certain conditions such as prolonged cool weather (dail, high temperature less than 50° F.) or wide fluctuations in day/night temperatures just prior to or soon after treatment, temporary yellowing and/or crop stunting may occur. Risk of injury is greatest when crop is in the 2 to 5-leaf stage.

Do not apply to wheat or barley crops underseeded with another crop.

Do not apply "Harmony" to tame oats.

In flood or furrow irrigated fields, if no rain has occurred after "Harmony" treatment (at least 1/2 inch), do not allow tailwater from the first irrigation after "Harmony" application to leave the "Harmony" treated field.

For ground applications applied to weeds when dry, dusty field conditions exist, control of weeds in wheel track areas may be reduced.

The "Harmony" volumetric measuring cylinder is to be used only as a guide, since the degree of accuracy varies by plus or minus 7.5%. For more precise measurement, use scales calibrated in ounces.

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

STORAGE AND DISPOSAL

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed.

DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Triple-rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. **DUPONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 352-1466