



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 13, 2019

Edward Bockrath
Product Registration Manager
FMC Corporation
c/o FMC Stine Research Center
1090 Elkton Road
Newark, Delaware 19711

Subject: Registration Review Label Mitigation for Thifensulfuron-methyl and Tribenuron-methyl
Product Name: Harmony Extra Herbicide
Application Date: 12/18/2017
EPA Registration Number: 279-9583
Decision Number: 540687

Dear Mr. Bockrath:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the 22 Sulfonylurea (SU) Herbicides Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

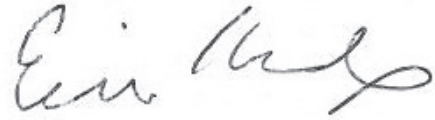
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions about this letter, please contact Erik Kraft by phone at 703-308-9358, or via email at kraft.erik@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Erik Kraft". The signature is fluid and cursive, with the first name "Erik" being more prominent than the last name "Kraft".

Erik Kraft, Product Manager 24
Fungicide and Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

HARMONY®

EXTRA HERBICIDE

THIFENSULFURON METHYL	GROUP	2	HERBICIDE
TRIBENURON METHYL	GROUP	2	HERBICIDE

Dry flowable

For Use on Wheat, Barley, Oat and Fallow

Active Ingredients

By Weight

Thifensulfuron-methyl

Methyl 3-[[[[(4-methoxy-6-methyl-1,3,5- triazin-2-yl) amino]carbonyl]amino] sulfonyl]-2-thiophenecarboxylate50%

Tribenuron-methyl

Methyl 2-[[[N-(4-methoxy-6-methyl-1,3,5- triazin-2-yl) methylamino]carbonyl] amino]sulfonyl]benzoate25%

Other Ingredients25%

TOTAL100%

Contains 0.50 lb Thifensulfuron Methyl per pound

EPA Est. No. _____

Contains 0.25 lb Tribenuron Methyl per pound

Nonrefillable Container

Refillable Container

EPA Reg. No. 279-9583

Net: _____ OR

Net: _____

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves made of any waterproof material including polyethylene or polyvinyl chloride.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENTS

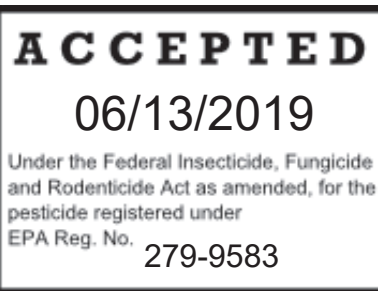
When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170 Section 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Sold By

FMC Corporation



2929 Walnut Street
Philadelphia, PA 19104



USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposing of equipment washwaters or wastes.

Groundwater Advisory

This product has properties and characteristics associated with chemicals detected in groundwater. This product may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several weeks or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this product from runoff water and sediment. Runoff of this product will be greatly reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Windblown Soil Particles Advisory

This product has the potential to move off-site due to wind erosion. Soils that are subject to wind erosion usually have a high silt and/or fine to very fine sand fractions and low organic matter content. Other factors which can affect the movement of windblown soil include the intensity and direction of prevailing winds, vegetative cover, site slope, rainfall, and drainage patterns. Avoid applying this product if prevailing local conditions may be expected to result in off-site movement.

Non-target Organism Advisory

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by minimizing spray drift. For further guidance and instructions on how to minimize spray drift, refer to the Spray Drift Management section of this label.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil, or water, is:

Coveralls.

Chemical resistant gloves made of any waterproof material including polyethylene or polyvinyl chloride.

Shoes plus socks.

HARMONY® EXTRA herbicide must be used only in accordance with directions on this label.

HARMONY® EXTRA herbicide is directed for use on wheat, barley, oat, and fallow in most states, check with your state extension or Dept. of Agriculture before use, to be certain HARMONY® EXTRA herbicide is registered in your state.

To the extent consistent with applicable law, FMC will not be responsible for losses or damages resulting from the use of this product in any manner not specifically directed by FMC.

PRODUCT INFORMATION

HARMONY® EXTRA herbicide is a dry flowable granule that is used for selective postemergence weed control in wheat (including durum), barley, oat and fallow. The best control is obtained when HARMONY® EXTRA herbicide 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 and duration of control may depend on the following:

- weed spectrum and infestation intensity
- weed size at application
- environmental conditions at and following treatment

HARMONY® EXTRA herbicide is noncorrosive, nonflammable, nonvolatile, and does not freeze. HARMONY® EXTRA herbicide must be mixed in water and applied as a uniform broadcast spray.

RESTRICTIONS

Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- DO NOT apply, 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 apply to wheat, barley or oat crops underseeded with another crop.

DO NOT harvest sooner than 45 days after the last application of HARMONY® EXTRA herbicide.

PRECAUTIONS

Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Take all necessary precautions to avoid all direct or indirect contact (including spray drift) with non-target plants or areas.

Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat, barley or oat.

Dry, dusty field conditions may result in reduced control in wheel track areas.

Varieties of wheat (including durum) and barley may differ in their response to various herbicides. Consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use to a small area.

Under certain conditions including heavy rainfall, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after HARMONY® EXTRA application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix HARMONY® EXTRA with 2,4-D (ester formulations perform best—see Tank Mixtures) and apply after the crop is in the tillering stage of growth.

HARMONY® EXTRA must not be applied to wheat, barley or oat that is stressed by severe weather conditions, drought, low fertility, water saturated soil, disease, or insect damage, as crop injury may result. Risk of injury is greatest when crop is in the 2 to 5- leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

HARMONY® EXTRA herbicide is absorbed primarily through the foliage of plants, rapidly inhibiting the growth of susceptible weeds. One to 3 weeks after application to weeds (2 to 5 weeks for wild garlic), leaves of susceptible plants appear chlorotic, and the growing point subsequently dies.

HARMONY® EXTRA herbicide provides the best control in vigorously growing crops that shade competitive weeds. Weed control in areas of thin crop stand or seeding skips may not be as satisfactory. However, a crop canopy that is too dense at application can intercept spray and reduce weed control.

The herbicidal action of HARMONY® EXTRA herbicide may be affected in crops stressed from adverse environmental conditions (including extreme temperatures or moisture), abnormal soil conditions, cultural practices, or variations in crop variety. In warm, moist conditions, the expression of herbicide symptoms is accelerated; in cold, dry conditions, expression of herbicide symptoms is delayed. In addition, weeds hardened-off by drought stress are less susceptible to HARMONY® EXTRA herbicide.

RATE CONVERSION CHART FOR HARMONY® EXTRA HERBICIDE

Ounces of HARMONY® EXTRA herbicide/A	Pounds of HARMONY® EXTRA herbicide/A	Active Ingredient	Pounds of Active Ingredient/A
0.3	0.0188	Thifensulfuron methyl	0.0094
		Tribenuron methyl	0.0047
0.4	0.025	Thifensulfuron methyl	0.0125
		Tribenuron methyl	0.0063
0.5	0.0313	Thifensulfuron methyl	0.0156
		Tribenuron methyl	0.0078
0.6	0.0375	Thifensulfuron methyl	0.0188
		Tribenuron methyl	0.0094
1.0	0.0625	Thifensulfuron methyl	0.0313
		Tribenuron methyl	0.0156

LABELLED USES

HARMONY® EXTRA herbicide provides selective postemergence control of certain broadleaf weeds in wheat (including durum), barley, oat, triticale, pre-plant burndown and fallow.

Wheat (Including Durum) and Barley

Application and Use Rate Information	Use Rates (oz of HARMONY® EXTRA herbicide per acre)	Active Ingredient	Pounds of Active Ingredient per acre
Make applications after the crop is in the 2-leaf stage, but before the flag leaf is visible. Apply 0.3 to 0.6 oz HARMONY® EXTRA herbicide per acre to wheat (including durum) or barley.	0.3 to 0.6	Thifensulfuron methyl	0.0094 to 0.0188
		Tribenuron methyl	0.0047 to 0.0094
Use 0.3 to 0.4 oz HARMONY® EXTRA herbicide per acre for light infestation of the weeds listed under Weeds Controlled. Conditions at application needs to be optimum for effective treatment of these weeds.	0.3 to 0.4	Thifensulfuron methyl	0.0094 to 0.0125
		Tribenuron methyl	0.0047 to 0.0063
Use 0.5 oz HARMONY® EXTRA herbicide per acre for heavy infestation of the weeds listed under Weeds Partially Controlled.	0.5	Thifensulfuron methyl	0.0156
		Tribenuron methyl	0.0078
Use 0.6 oz HARMONY® EXTRA herbicide per acre for heavy infestation of the weeds listed under Weeds Partially Controlled when application timing and environmental conditions are marginal (refer to Environmental Conditions and Biological Activity for best performance).	0.6	Thifensulfuron methyl	0.0188
		Tribenuron methyl	0.0094

RESTRICTIONS in Wheat (including durum) and Barley:

- DO NOT apply to wheat or barley crops underseeded with another crop.
- DO NOT harvest wheat or barley sooner than 45 days after the last application of HARMONY® EXTRA herbicide
- DO NOT use less than 0.3 oz HARMONY® EXTRA herbicide per acre, unless otherwise specified by FMC.
- DO NOT apply more than 0.6 oz of HARMONY® EXTRA herbicide per acre in a single application (maximum active ingredient per single application is 0.0188 lb/A thifensulfuron methyl and 0.0094 lb/A tribenuron methyl).
- DO NOT apply more than 1.0 oz of HARMONY® EXTRA herbicide per acre per year (maximum active ingredient load per year is 0.0313 lb/A thifensulfuron methyl and 0.0156 lb/A tribenuron methyl).
- DO NOT exceed two applications of HARMONY® EXTRA herbicide per year in Wheat (including durum) and Barley.
- HARMONY® EXTRA herbicide is only registered on wheat, barley, oat and fallow. DO NOT use on any other crop.
- The minimum retreatment interval is 14 days.
- Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:
 - DO NOT apply, 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, or tennis courts. Prevent drift of spray to desirable plants.

PRECAUTIONS in Wheat (including durum) and Barley:

Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat or barley.

Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Take all necessary precautions to avoid all direct or indirect contact (including spray drift) with non-target plants or areas.
- Prevent drift of spray to desirable plants.

Varieties of wheat (including durum) and barley may differ in their response to various herbicides. Consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use to a small area.

Under certain conditions including heavy rainfall, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after HARMONY® EXTRA herbicide application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix HARMONY® EXTRA herbicide with 2,4-D (ester formulations perform best—see Tank Mixtures) and apply after the crop is in the tillering stage of growth.

HARMONY® EXTRA herbicide must not be applied to wheat or barley that is stressed by severe weather conditions, drought, low fertility, water saturated soil, disease, or insect damage, as crop injury may result. Risk of injury is greatest when crop is in the 2 to 5- leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.

Dry, dusty field conditions may result in reduced control in wheel track areas.

TANK MIXTURES in Wheat (including durum) and Barley:

For expanded weed control, HARMONY® EXTRA herbicide may be tank mixed with approved labeled rates of other herbicides labeled for use in wheat (including durum) and barley. Refer to the other product's label for rotational crop intervals and other directions for use.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. If the instructions on the tank mix partner label conflict with this HARMONY® EXTRA herbicide, then DO NOT use in a tank mixture with HARMONY® EXTRA herbicide.

Winter Oat

Application and Use Rate Information	Use Rates (oz of HARMONY® EXTRA herbicide per acre)	Active Ingredient	Pounds of Active Ingredient per acre
Make applications after the crop is in the 2-leaf stage, but before the flag leaf is visible. DO NOT harvest within 45 days of the last application. Apply 0.3 to 0.4 oz HARMONY® EXTRA herbicide per acre.	0.3 to 0.4	Thifensulfuron methyl	0.0094 to 0.0125
		Tribenuron methyl	0.0047 to 0.0063

RESTRICTIONS in Winter Oat:

- DO NOT apply to oat crops underseeded with another crop.
- DO NOT harvest oat sooner than 45 days after the last application of HARMONY® EXTRA herbicide.
- DO NOT make more than one application of HARMONY® EXTRA herbicide per year on Winter Oat.
- DO NOT use less than 0.3 oz HARMONY® EXTRA herbicide per acre, unless otherwise specified by FMC.
- DO NOT apply more than 0.4 oz of HARMONY® EXTRA herbicide per acre in a single application (maximum active ingredient per single application is 0.0125 lb/A thifensulfuron methyl and 0.0063 lb/A tribenuron methyl).
- DO NOT apply more than 0.4 oz of HARMONY® EXTRA herbicide per acre per year (maximum active ingredient load per year is 0.0125 lb/A thifensulfuron methyl and 0.0063 lb/A tribenuron methyl).
- HARMONY® EXTRA herbicide is only registered on wheat, barley, oat and fallow. DO NOT use on any other crop.
- Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:
 - DO NOT apply, 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, or tennis courts. Prevent drift of spray to desirable plants.

PRECAUTIONS in Winter Oat:

Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than oat.

Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Prevent drift of spray to desirable plants.
- Take all necessary precautions to avoid all direct or indirect contact (including spray drift) with non-target plants or areas.

HARMONY® EXTRA herbicide must not be applied to oat that is stressed by severe weather conditions, drought, low fertility, water saturated soil, disease, or insect damage, as crop injury may result. Risk of injury is greatest when crop is in the 2 to 5- leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.

Under certain conditions including heavy rainfall, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after HARMONY® EXTRA herbicide application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix HARMONY® EXTRA herbicide with 2,4-D (ester formulations perform best—see Tank Mixtures) and apply after the crop is in the tillering stage of growth.

Dry, dusty field conditions may result in reduced control in wheel track areas.

TANK MIXTURES in Winter Oat:

For expanded weed control, HARMONY® EXTRA herbicide may be tank mixed with approved labeled rates of other herbicides labeled for use in Winter Oat. Refer to the other product’s label for rotational crop intervals and other directions for use.

It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. If the instructions on the tank mix partner label conflict with this HARMONY® EXTRA herbicide label, then DO NOT use in a tank mixture with HARMONY® EXTRA herbicide.

Spring Oat

Application and Use Rate Information	Use Rates (oz of HARMONY® EXTRA herbicide per acre)	Active Ingredient	Pounds of Active Ingredient per acre
Make applications after the crop is in the 3-leaf stage but before jointing. DO NOT harvest within 45 days of the last application. Apply 0.3 to 0.4 oz HARMONY® EXTRA herbicide per acre.	0.3 to 0.4	Thifensulfuron methyl	0.0094 to 0.0125
		Tribenuron methyl	0.0047 to 0.0063

RESTRICTIONS in Spring Oat:

- DO NOT apply to oat crops underseeded with another crop.
- DO NOT harvest oat sooner than 45 days after the last application of HARMONY® EXTRA herbicide.
- DO NOT make more than one application of HARMONY® EXTRA herbicide per year on Spring Oat.
- DO NOT use less than 0.3 oz HARMONY® EXTRA herbicide per acre, unless otherwise specified by FMC.
- DO NOT apply more than 0.4 oz of HARMONY® EXTRA herbicide per acre in a single application (maximum active ingredient per single application is 0.0125 lb/A thifensulfuron methyl and 0.0063 lb/A tribenuron methyl).
- DO NOT apply more than 0.4 oz of HARMONY® EXTRA herbicide per acre per year (maximum active ingredient load per year is 0.0125 lb/A thifensulfuron methyl and 0.0063 lb/A tribenuron methyl).
- DO NOT use on "Ogle", "Porter" or "Premier" varieties as crop injury can occur.
- HARMONY® EXTRA herbicide is only registered on wheat, barley, oat and fallow. DO NOT use on any other crop.
- Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:
 - DO NOT apply, 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, or tennis courts. Prevent drift of spray to desirable plants.

PRECAUTIONS in Spring Oat:

Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than oat.

Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Prevent drift of spray to desirable plants.
- Take all necessary precautions to avoid all direct or indirect contact (including spray drift) with non-target plants or areas.

HARMONY® EXTRA herbicide must not be applied to oat that is stressed by severe weather conditions, drought, low fertility, water saturated soil, disease, or insect damage, as crop injury may result. Risk of injury is greatest when crop is in the 2 to 5- leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.

Under certain conditions including heavy rainfall, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after HARMONY® EXTRA herbicide application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix HARMONY® EXTRA herbicide with 2,4-D (ester formulations perform best—see Tank Mixtures) and apply after the crop is in the tillering stage of growth.

Dry, dusty field conditions may result in reduced control in wheel track areas.

TANK MIXTURES in Spring Oat:

For expanded weed control, HARMONY® EXTRA herbicide may be tank mixed with approved labeled rates of other herbicides labeled for use in Spring Oat. Refer to the other product's label for rotational crop intervals and other directions for use.

Refer to the other product's label for rotational crop intervals and other directions for use. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. If the instructions on the tank mix partner label conflict with this HARMONY® EXTRA herbicide label, then DO NOT use in a tank mixture with HARMONY® EXTRA herbicide.

Pre-Plant Burndown

Application and Use Rate Information	Use Rates (oz of HARMONY® EXTRA herbicide per acre)	Active Ingredient	Pounds of Active Ingredient per acre
<p>Apply 0.3 to 0.6 oz/A HARMONY® EXTRA herbicide as a burndown treatment to wheat (including durum), barley, and oat to control emerged weeds prior to, or shortly after planting (prior to emergence). Make applications when the majority of weeds have emerged and are actively growing. Use 0.6 oz/A when weed infestation is heavy and predominantly consists of those weeds listed under PARTIAL CONTROL, or when application timing and environmental conditions are marginal. (See APPLICATION TIMING Section for restriction on planting intervals).</p> <p>Applications to sugarbeets, winter rape and canola can be made at least 60 days prior to planting. Applications to any other crop can be made at least 45 days prior to planting (crops including corn, cotton, rice, grain sorghum or soybeans).</p> <p>Sequential treatments of HARMONY® EXTRA herbicide may also be made provided the total amount of HARMONY® EXTRA herbicide applied in a year does not exceed 1.0 oz/A.</p>	0.3 to 0.6	Thifensulfuron methyl	0.0094 to 0.0188
		Tribenuron methyl	0.0047 to 0.0094
<p>RESTRICTIONS for Pre-Plant Burndown (Wheat including durum, Barley, and Oat):</p> <ul style="list-style-type: none"> • DO NOT use less than 0.3 oz HARMONY® EXTRA herbicide per acre, unless otherwise specified by FMC. • DO NOT apply more than 0.6 oz of HARMONY® EXTRA herbicide per acre in a single application (maximum active ingredient per single application is 0.0188 lb/A thifensulfuron methyl and 0.0094 lb/A tribenuron methyl). • DO NOT apply more than 1.0 oz of HARMONY® EXTRA herbicide per acre per year (maximum active ingredient load per year is 0.0313 lb/A thifensulfuron methyl and 0.0156 lb/A tribenuron methyl). • DO NOT exceed two applications of HARMONY® EXTRA herbicide per year for Pre-Plant Burndown (Wheat including durum, Barley, and Oat). • The minimum retreatment interval is 14 days. 			

TANK MIXTURES for Pre-Plant Burndown:

HARMONY® EXTRA herbicide may be used as a pre-plant burndown treatment alone or tank mixed with approved labeled rates of other herbicides that are registered for use as a pre-plant burndown product. Refer to the other product's label for rotational crop intervals and other directions for use.

Refer to the other product's label for rotational crop intervals and other directions for use. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. If the instructions on the tank mix partner label conflict with this HARMONY® EXTRA herbicide label, then DO NOT use in a tank mixture with HARMONY® EXTRA herbicide.

Fallow

Application and Use Rate Information	Use Rates (oz of HARMONY® EXTRA herbicide per acre)	Active Ingredient	Pounds of Active Ingredient per acre
<p>Apply 0.3 to 0.6 oz/A HARMONY® EXTRA herbicide as a fallow treatment, in the Spring or Fall when the majority of weeds have emerged and are actively growing.</p> <p>Two applications of HARMONY® EXTRA herbicide may be made provided the total amount of HARMONY® EXTRA herbicide applied in fallow does not exceed 1.0 oz/A per year.</p> <p>HARMONY® EXTRA herbicide must be applied in combination with other suitable registered fallow herbicides.</p>	0.3 to 0.6	Thifensulfuron methyl	0.0094 to 0.0188
		Tribenuron methyl	0.0047 to 0.0094
<p>RESTRICTIONS in Fallow:</p> <ul style="list-style-type: none"> • DO NOT use less than 0.3 oz/A HARMONY® EXTRA herbicide, unless otherwise specified by FMC. • DO NOT apply more than 0.6 oz/A HARMONY® EXTRA herbicide in a single application (maximum active ingredient per single application is 0.0188 lb/A thifensulfuron methyl and 0.0094 lb/A tribenuron methyl). • DO NOT apply more than 1.0 oz/A HARMONY® EXTRA herbicide per year (maximum active ingredient load per year is 0.0313 lb/A thifensulfuron methyl and 0.0156 lb/A tribenuron methyl). • DO NOT exceed two applications of HARMONY® EXTRA herbicide per year in Fallow. • The minimum retreatment interval is 14 days. 			

TANK MIXTURES in Fallow:

HARMONY® EXTRA herbicide may be used as a fallow treatment and must be tank mixed with other herbicides registered for use in fallow. Refer to the other product's label for rotational crop intervals and other directions for use.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. If the instructions on the tank mix partner label conflict with this HARMONY® EXTRA herbicide label, then DO NOT use in a tank mixture with HARMONY® EXTRA herbicide.

TANK MIXTURES

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. If the instructions on the tank mix partner label conflict with this HARMONY® EXTRA herbicide label, then DO NOT use in a tank mixture with HARMONY® EXTRA herbicide.

With other grass control products

Tank mixtures of HARMONY® EXTRA herbicide and grass control products may result in poor grass control. Consult your state experiment station, university, or extension agent, Agricultural dealer, or FMC representative as to the potential for antagonism before using the mixture. If no information is available, limit the initial use of HARMONY® EXTRA herbicide and the grass product to a small area.

With Insecticides

HARMONY® EXTRA herbicide may be tank mixed or used sequentially with insecticides (or fungicides) registered for use on cereal grains. However, under certain conditions (drought stress, or if the crop is in the 2-4 leaf stage), tank mixes or sequential applications of HARMONY® EXTRA herbicide with organophosphate insecticides may produce temporary crop yellowing or, in severe cases, crop injury. Test these mixtures in a small area before treating large areas.

DO NOT use HARMONY® EXTRA herbicide plus products containing malathion, as crop injury will result.

With Liquid Nitrogen Solution Fertilizer

Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Run a tank mix compatibility test before mixing HARMONY® EXTRA herbicide in fertilizer solution. HARMONY® EXTRA herbicide must first be slurried with water and then added to liquid nitrogen solutions (e.g., 28-0-0, 32-0-0). Ensure that the agitator is running while the HARMONY® EXTRA herbicide is added. Use of this mixture may result in temporary crop yellowing and stunting.

If using low rates of liquid nitrogen fertilizer in the spray solution (less than 50% of the spray solution volume), the addition of surfactant is necessary. Add surfactant at 1/4 qt - 1 qt per 100 gal of spray solution (0.06 -0.25% v/v) based on local directions.

When using high rates of liquid nitrogen fertilizer solution in the spray solution, adding surfactant increases the risk of crop injury. Consult your agricultural dealer, consultant, fieldman, or FMC representative for specifications before adding an adjuvant to these tank mixtures.

If 2,4-D or MCPA is included with HARMONY® EXTRA herbicide and fertilizer mixture, ester formulations tend to be more compatible (See manufacturer's label). Additional surfactant is not needed when using HARMONY® EXTRA herbicide in tank mix with 2,4-D ester or MCPA ester and liquid nitrogen fertilizer solutions.

DO NOT use low rates of liquid nitrogen fertilizer solution as a substitute for a surfactant.

DO NOT use with liquid fertilizer solutions with a pH less than 3.0.

CROP ROTATION

Wheat, Barley, and Oat may be replanted anytime after the application of HARMONY® EXTRA herbicide. Sugarbeets, Winter Rape, and Canola can be planted 60 days after the application of HARMONY® EXTRA herbicide. Any other crop may be planted 45 days after the application of HARMONY® EXTRA herbicide.

APPLICATION INFORMATION

Since HARMONY® EXTRA herbicide has very little or no soil activity, it controls only those weeds that have germinated; therefore, apply HARMONY® EXTRA herbicide when all or most of the weeds have germinated. Annual broadleaf weeds must be past the cotyledon stage, actively growing, and less than 4" tall or wide. Wild garlic plants must be less than 12" tall with 2" to 4" of new growth. See Specific Weed Problems for more information.

Rainfall immediately after treatment can wash HARMONY® EXTRA herbicide off of weed foliage, resulting in reduced weed control. Several hours of dry weather are needed to allow HARMONY® EXTRA herbicide to be sufficiently absorbed by weed foliage.

WEEDS CONTROLLED

HARMONY® EXTRA herbicide effectively controls the following weeds when used according to label directions:

Annual knawel	Curly dock	Redmaids
Annual sowthistle	False chamomile	Redroot pigweed
Black mustard	Field chickweed	Russian thistle *
Blue/Purple mustard	Field pennycress	Scentless chamomile/mayweed
Broadleaf dock	Filaree (redstem, Texas)	Shepherd's-purse
Bur buttercup	Flixweed	Slimleaf lambsquarters
Bushy wallflower/ Treacle mustard	Green smartweed	Smallflower buttercup
Clasping pepperweed	Henbit	Smallseed falseflax
Coast fiddleneck	Kochia *	Stinking chickweed
Common buckwheat	Ladysthumb	Stinking mayweed/dogfennel
Common chickweed	Lanceleaf sage *	Swinecress
Common cocklebur *	London rocket	Tansymustard
Common groundsel	Marshelder	Tarweed fiddleneck
Common lambsquarters	Mayweed chamomile	Tumble/ Jim Hill mustard
Common radish	Miners lettuce	Volunteer lentils
Common ragweed *	Narrowleaf lambsquarters	Volunteer peas
Common sunflower	Nightflowering catchfly	Volunteer sunflower
Corn chamomile	Pennsylvania smartweed	Wild buckwheat*
Corn gromwell*	Pineappleweed	Wild chamomile
Corn spurry	Prickly lettuce *	Wild garlic*
Cowcockle	Prostrate knotweed	Wild mustard
Cress (mouse-ear)	Prostrate pigweed	Wild radish*

WEEDS PARTIALLY CONTROLLED**

HARMONY® EXTRA herbicide partially controls the following weeds when used according to label directions:

Canada thistle*	Cutleaf eveningprimrose	Nightshade (cutleaf, hairy)
Carolina geranium	Mallow (common, little)	Vetch* (common, hairy)
Catchweed bedstraw		

* See SPECIFIC WEED PROBLEMS for more information.

**Partial control: A visual reduction of weed population as well as a significant loss of vigor. For better results, use the highest specified rate of HARMONY® EXTRA herbicide per acre and include a tank mix partner such as 2,4-D, MCPA, dicamba or bromoxynil containing herbicides (refer to TANK MIXTURES).

SPECIFIC WEED PROBLEMS

Canada thistle: For control in wheat and barley, use 0.6 oz/A HARMONY® EXTRA herbicide plus surfactant when all thistles are 4" to 8" with 2" to 6" of new growth. Make the application in the spring. Control will be improved by using HARMONY® EXTRA herbicide in combination with 2,4-D (refer to TANK MIXTURES).

For control in oat, use 0.4 oz/A HARMONY® EXTRA herbicide plus 2,4-D (refer to TANK MIXTURES).

Common cocklebur, Common ragweed, Lanceleaf sage: In wheat and barley, apply HARMONY® EXTRA herbicide at 0.4 to 0.5 oz/A in combination with 2,4-D at rates from 1/4 to 3/8 lb active ingredient (ester formulations work best) per acre when weeds are small and actively growing. When using 1/4 lb active ingredient of 2,4-D per acre, be sure to add surfactant at the rate of 1/4 to 1/2 quart per 100 gallons of spray solution (0.06 to 0.125% v/v—use the higher rate under stress conditions).

For control in oat, use 0.4 oz/A HARMONY® EXTRA herbicide plus 2,4-D. Refer to the Tank Mixtures sections of this label for additional details.

Corn gromwell, Wild buckwheat: For control in wheat and barley, use 0.5 to 0.6 oz/A HARMONY® EXTRA herbicide plus surfactant.

For control in oat, use 0.4 oz/A HARMONY® EXTRA herbicide plus 2,4-D, MCPA or bromoxynil containing herbicides (refer to TANK MIXTURES).

Kochia, Russian thistle, Prickly lettuce: Naturally occurring resistant biotypes of these weeds are known to occur. For best results, use HARMONY® EXTRA herbicide in a tank mix with dicamba and 2, 4-D; or bromoxynil and 2,4-D. Apply HARMONY® EXTRA herbicide in the spring when weeds are less than 2” tall or 2” across and are actively growing. Refer to the Tank Mixtures section of this label for additional details.

Vetch (common and hairy): For control in wheat and barley, use 0.5 to 0.6 oz/A of HARMONY® EXTRA herbicide plus surfactant when vetch is less than 6” in length. For severe infestations of vetch, or when vetch is greater than 6” in length, use HARMONY® EXTRA herbicide in combination with 2,4-D or MCPA (refer to the Tank Mixtures section of this label).

For control in oat, use 0.4 oz/A HARMONY® EXTRA herbicide plus 2,4-D or MCPA (refer to TANK MIXTURES).

Wild garlic: For control in wheat and barley, use 0.5 to 0.6 oz/A HARMONY® EXTRA herbicide plus surfactant when wild garlic plants are less than 12” tall with 2” to 4” of new growth. For severe infestations, use the 0.6 oz/A rate of HARMONY® EXTRA herbicide. Plants hardened-off by cold weather and/or drought stress may be more difficult to control. Thorough spray coverage of all garlic plants is essential. Typical symptoms of dying garlic plants may not be noticeable for 2 to 5 weeks.

For control in oat, use 0.4 oz/A HARMONY® EXTRA herbicide plus 2,4-D or MCPA (refer to TANK MIXTURES).

Wild radish: For best results in wheat and barley, apply 0.4 to 0.6 oz/A HARMONY® EXTRA herbicide plus surfactant either in the fall or spring to wild radish rosettes less than 6 inches in diameter. Applications made later than 30 days after weed emergence will result in partial control. For increased control of severe wild radish infestations, or wild radish emerged greater than 30 days, apply HARMONY® EXTRA herbicide at 0.3 oz/A in combination with MCPA at 1/4 lb active ingredient per acre. Surfactant is required when tank mixing with MCPA, add 1 quart per 100 gallons of spray solution (0.25% vol/vol). Fall applications must be made prior to hardening off of plants.

For control in oat, use 0.4 oz/A HARMONY® EXTRA herbicide plus 2,4-D or MCPA (refer to TANK MIXTURES).

SURFACTANTS

Unless otherwise specified, add an FMC advised nonionic surfactant having at least 80% active ingredient at 1 to 2 qt per 100 gal of spray solution (0.25 to 0.5% v/v - refer to TANK MIXTURES for specific adjuvant directions when HARMONY® EXTRA herbicide is used in a tank mix).

Consult your agricultural dealer, applicator, or FMC representative for a listing of advised surfactants. Antifoaming agents may be used if needed.

DO NOT use low rates of liquid nitrogen fertilizer solution as a substitute for surfactant.

GROUND APPLICATION

For optimum spray distribution and thorough coverage, use flat-fan or low-volume flood nozzles.

For flat-fan nozzles, use a spray volume of at least 5 gal per acre (GPA).

For flood nozzles on 30” spacings, use at least 10 GPA, flood nozzles no larger than TK10 (or the equivalent), and a pressure of at least 30 psi. For 40” nozzle spacings, use at least 13 GPA; for 60” spacings use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacings.

Raindrop “RA” nozzles are not advised for HARMONY® EXTRA herbicide applications, as weed control performance may be reduced.

Use screens that are 50-mesh or larger.

Chemigation - Refer to specific supplemental labeling for use directions for HARMONY® EXTRA herbicide in chemigation systems.

DO NOT apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

AERIAL APPLICATION

Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage at 2 to 5 GPA.

Use at least 3 GPA in Idaho, Oregon, or Utah.

DO NOT apply HARMONY® EXTRA herbicide by air in the state of New York. See the Spray Drift Management section of this label.

PRODUCT MEASUREMENT

HARMONY® EXTRA herbicide is measured using the HARMONY® EXTRA herbicide volumetric measuring cylinder. The degree of accuracy of this cylinder varies by $\pm 7.5\%$. For more precise measurement, use scales calibrated in ounces.

PESTICIDE HANDLING

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Ensure that all operation employees accurately measure pesticides.
- Mix only enough product for the job at hand.
- Avoid overfilling of spray tank.
- DO NOT discharge excess material on the soil at a single spot in the field, grove, or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates or uses.
- Avoid storage of pesticides near well sites.
- When triple-rinsing the pesticide container, be sure to add the rinsate to the spray mix.

MIXING INSTRUCTIONS

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of HARMONY® EXTRA herbicide
3. Continue agitation until the HARMONY® EXTRA herbicide is fully dispersed, at least 5 minutes.
4. Once the HARMONY® EXTRA herbicide is fully dispersed, maintain agitation and continue filling tank with water. HARMONY® EXTRA herbicide must be thoroughly mixed with water before adding any other material.
5. As the tank is filling, add tank mix partners (if desired) then add the required volume of nonionic surfactant. Always add surfactant last. DO NOT use with spray additives that alter the pH of the spray solution below pH 5.0 or above pH 9.0, as rapid product degradation can occur. Spray solutions of pH 6.0-8.0 allow for optimum stability of HARMONY® EXTRA herbicide.
6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
7. Apply HARMONY® EXTRA herbicide spray mixture within 24 hours of mixing to avoid product degradation.
8. If HARMONY® EXTRA herbicide and a tank mix partner are to be applied in multiple loads, pre-slurry the HARMONY® EXTRA herbicide in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the HARMONY® EXTRA herbicide.

GRAZING

DO NOT graze livestock in treated areas. In addition, DO NOT feed forage or hay from treated areas to livestock (harvested straw may be used for bedding and/or feed).

SPRAY EQUIPMENT

SPRAYER CLEANUP

The spray equipment must be cleaned before HARMONY® EXTRA herbicide is sprayed. Follow the cleanup procedures specified on the labels of the previously applied products. If no directions are provided, follow the six steps outlined in After Spraying HARMONY® EXTRA herbicide.

AT THE END OF THE DAY

FMC advises that during periods when multiple loads of HARMONY® EXTRA herbicide are applied, at the end of each day of spraying the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits which can accumulate in the application equipment.

AFTER SPRAYING HARMONY® EXTRA HERBICIDE AND BEFORE SPRAYING CROPS OTHER THAN WHEAT, BARLEY AND OAT

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of HARMONY® EXTRA herbicide as follows:

1. Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.
2. Fill the tank with clean water and 1 gal of household ammonia* (contains 3% active) for every 100 gal of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 min. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank.
3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat step 2.
5. Rinse the tank, boom, and hoses with clean water.
6. If only Ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) specified on this label. DO NOT exceed the maximum labeled use rate. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

* Equivalent amounts of an alternate-strength ammonia solution or an FMC-approved cleaner can be used in the cleanout procedure. Carefully read and follow the individual cleaner instructions. Consult your Ag dealer, applicator, or FMC representative for a listing of approved cleaners.

Notes:

1. **CAUTION:** DO NOT use chlorine bleach with ammonia as dangerous gases will form. DO NOT clean equipment in an enclosed area.
2. Steam-clean the aerial spray tanks prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.
3. When HARMONY® EXTRA herbicide is tank mixed with other pesticides, all cleanout procedures must be examined and the most rigorous procedure must be followed.
4. In addition to this cleanout procedure, all precleanout guidelines on subsequently applied products must be followed as per the individual labels.
5. Where routine spraying practices include shared equipment frequently being switched between applications of HARMONY® EXTRA herbicide and applications of other pesticides to HARMONY® EXTRA herbicide-sensitive crops during the same spray season, dedicate a sprayer to HARMONY® EXTRA herbicide to further reduce the chance of crop injury.

MANDATORY SPRAY DRIFT

Ground Boom Applications:

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- DO NOT apply when wind speeds exceed 10 miles per hour at the application site.
- DO NOT apply during temperature inversions.

Aerial Applications:

- DO NOT release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use one-half swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- DO NOT apply when wind speeds exceed 10 miles per hour at the application site.
- DO NOT apply during temperature inversions.

SPRAY DRIFT MANAGEMENT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles.
Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift. When applying aurally to crops, DO NOT release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Handheld Technology Applications:

- Take precautions to minimize spray drift.

DRIFT CONTROL ADDITIVES

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution. Preferred drift control additives have been certified by the Chemical Producers and Distributors Association (CPDA).

WEED RESISTANCE MANAGEMENT

HARMONY® EXTRA herbicide, which contains the active ingredients Thifensulfuron methyl and Tribenuron methyl, is a group 2 herbicide based on the mode of action classification system of the Weed Science Society of America.

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different sites of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance.

The continued effectiveness of this product depends on the successful implementation of a weed resistance management program.

To aid in the prevention of developing weeds resistant to this product, users should:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using either a burndown herbicide application or tillage.

- Control weeds early when they are relatively small (less than 4 inches).
- Apply full rates of HARMONY® EXTRA herbicide for the most difficult to control weed in the field at the specified time (correct weed size) to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your FMC representative, local retailer, or county extension agent.
- Contact your FMC representative, crop advisor, or extension agent to find out if suspected resistant weeds to these MOAs have been found in your region. DO NOT assume that each listed weed is being controlled by multiple sites of action. Products with multiple active ingredients are intended to broaden the spectrum of weeds that are controlled.
Some weeds may be controlled by only one of the active ingredient in this product.
- If resistance is suspected, treat weed escapes with an herbicide having a site of action other than Group 2 and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Additionally, users should follow as many of the following herbicide resistance management practices as is practical:

- Use a broad spectrum soil-applied herbicide with other sites of action as a foundation in a weed control program.
- Utilize sequential applications of herbicides with alternative sites of action.
- Rotate the use of this product with non-Group 2 herbicides.
- Avoid making more than two applications of HARMONY® EXTRA herbicide and any other Group 2 herbicides within a single year unless mixed with an herbicide with a different site of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields, during and after harvest to reduce weed seed production.

INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store product in original container only.

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

Container Handling: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners: Nonrefillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Refillable Fiber Drums With Liners: Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with HARMONY® EXTRA herbicide containing thifensulfuron methyl and tribenuron methyl only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

All Other Refillable Containers: Refillable container. *Refilling Container:* Refill this container with HARMONY® EXTRA herbicide containing thifensulfuron methyl and tribenuron methyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use the container, contact FMC at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact FMC at the number below for instructions. *Disposing of Container:* Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Outer Foil Pouches of Water Soluble Packets (WSP): Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. If the outer pouch contacts the formulated product in any way, the pouch must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer pouch as described previously.

Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact CHEMTREC (Transportation and Spills) at 1-800-424-9300, day or night.

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