

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

November 9, 2023

Emily Dine State and Federal Registrations Manager ISK Biosciences Corporation 7470 Auburn Road, Suite A Concord, OH 44077

Subject: Label Amendment – Change crop rotational and preplant intervals for cotton and

soybean; update referral statement and hotline number; add target weeds table,

tank mix instruction, and optional warranty statement; and other label edits

Product Name: Tiafenacil 70WG Herbicide

EPA Registration Number: 71512-36 Application Date: June 25, 2021

Case Number: 483074

Dear Emily Dine:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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 FIFRA 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) lists 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

Page 2 of 2 EPA Reg. No. 71512-36 Case No. 483074

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.

Your release for shipment of the product 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.

If you have any questions, please contact Endia Blunt at 202-566-2505 or at blunt.endia@epa.gov.

Sincerely,

Mindy Ondish

Product Manager 23

My Out

Herbicide Branch

Registration Division (7505T)

Office of Pesticide Programs

Enclosure

TIAFENACIL 70WG HERBICIDE

A nonselective burndown herbicide with the active ingredient TERGEOTM

ACTIVE INGREDIENT: TIAFENACIL*

OTHER INGREDIENTS

TOTAL

70.0 %

30.0 %

100.0 %

*methyl N-[2-[[2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-4-fluorophenyl]thio]-1-oxopropyl]- β -alaninate

Tiafenacil 70WG is formulated as a water dispersible granule (WG) and contains 0.70 pounds of active ingredient per pound of formulated product.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

SEE [BELOW] [LABEL BOOKLET] [INSIDE BOOKLET] [BACK PANEL] [SIDE PANEL] FOR [FIRST AID] [AND] [ADDITIONAL] [PRECAUTIONARY STATEMENTS] [AND] [DIRECTIONS FOR USE] [INCLUDING STORAGE AND DISPOSAL]

READ ENTIRE LABEL CAREFULLY AND USE ONLY AS DIRECTED.

EPA Reg. No. 71512-36 EPA Est.No.

Net Contents:

ISK Biosciences Corporation 7470 Auburn Road, Suite A Concord, Ohio 44077 ACCEPTED

11/09/2023

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

~ 71512-36

PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

FIRST AID			
If swallowed	 Call a poison control center or doctor immediately for treatment advice. 		
	 Have person sip a glass of water if able to swallow. 		
	 Do not induce vomiting unless told to do so by the poison control center or doctor. 		
	 Do not give anything by mouth to an unconscious person. 		
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. 		
Have the product contain	ner or label with you when calling a poison control center or doctor, or going		
for treatment.			
	HOT LINE NUMBER		
For 24-Hour Medical E	mergency Assistance call National Poison Control Center at 1-800-222-1222.		
[For Chemical En	nergency, Spill, Leak, Fire or Accident, call CHEMTREC 1-800-424-9300.]		

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: waterproof gloves, long-sleeved shirt and long pants and shoes plus socks.

Engineering Controls

When handlers use closed systems and enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.607(d-e)), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Requirements

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations USERS SHOULD:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to estuarine/marine invertebrates. Do not apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

Ground Water Advisory

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

Surface Water Advisory

Tiafenacil may impact surface water due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow groundwater. This chemical is classified as having high potential for reaching surface water via runoff for several days after application. A level, well-maintained vegetative buffer strip between areas to which this chemical is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this chemical from runoff water and sediment. Runoff of this chemical will be reduced by avoiding application when rainfall is forecast to occur within 48 hours.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at time of herbicide application.

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, such as plants, soil, or water, is: Coveralls, waterproof gloves, and shoes plus socks.

Tiafenacil 70WG must be used only in accordance with directions on this label. To the extent consistent with applicable law, ISK Biosciences Corporation will not be responsible for losses or damage resulting from use of this product in any manner not specifically directed by ISK Biosciences.

PRODUCT INFORMATION

Rainfastness:

Tiafenacil 70WG is rainfast 1 hour after application.

Weed Efficacy Information:

Postemergence Activity. Tiafenacil 70WG is a nonselective contact/foliar (burndown) herbicide used to control or suppress a broad spectrum of emerged broadleaf and grass weeds. Tiafenacil 70WG has excellent burndown activity on most young (generally less than 5 inches tall) annual weeds and suppresses the growth of perennial weeds by desiccating green foliage.

- Tiafenacil 70WG must be applied with an adjuvant for optimum burndown activity (refer to 'Adjuvants' section for details).
- It is essential to obtain complete coverage of target weeds for adequate weed control. Inadequate coverage of target weeds, improper application technique, and/or application to mature, large (taller than 5 inches), stressed, or mown weeds will usually result in unacceptable weed control.
- Burndown activity may be slowed or reduced under cloudy and/or foggy or cooler weather conditions, or when weeds are growing under drought or other stress conditions.

Residual Activity. Tiafenacil 70WG rapidly degrades following application and as a result, Tiafenacil 70WG has no residual activity against weeds.

Mode of Action (MOA) Information:

Tiafenacil 70WG is classified as a Group 14 herbicide and is rapidly absorbed by emerged, actively growing, and susceptible green plant tissue. Once Tiafenacil 70WG is absorbed by green plant tissue, inhibition of protoporphyrinogen oxidase (PPO) results in rapid disintegration and drying of plant tissue. Chlorosis and necrotic symptoms usually develop within hours after application and death of susceptible weeds occurs within a few days.

Crop Tolerance Information:

Crops listed on this label are tolerant to Tiafenacil 70WG when applied according to the labeled directions and under normal environmental conditions.

- Crop injury may occur under stressful growing conditions.
- Crop injury will occur if Tiafenacil 70WG is applied postemergence (over the top) to the crop.
- In fields where poor row closure (during planting) and/or soil cracking is common, applicators should be watchful for cases where the crop emergence within the open planting row or within soil cracks. If Tiafenacil 70WG is applied when the crop has emerged within open planting rows or within soil cracks (between the soil walls), Tiafenacil 70WG will likely contact and injure the crop.
- In postemergence-directed (perennial crop) uses, Tiafenacil 70WG will cause crop injury if the spray solution drifts into the crop canopy.

Rotational Crop Information:

Table 1 indicates the interval between application of Tiafenacil 70WG and planting of rotational crops or replanting after crop failures. In case of tank mix, use the most restrictive interval of all products applied.

Table 1 Rotational crop and replanting intervals by Tiafenacil 70WG application rate

Crop	Tiafenacil 70WG Rate (oz/A)			
	0.5	1	1.5	
	Rotati	onal Crop Interval		
	(Days	(Days after application)		
Corn	0 0 0			
Wheat	0 0 0			
Soybean†	0-7* 7* 7*			
Cotton	7 14 14			
Sugarbeet	30 30 60			
Other crops	120 150 180			
The replanting interval for Soybean and rates are further defined in the Soybean section				

⁵

PRODUCT USES & APPLICATION INSTRUCTIONS:

Tiafenacil 70WG is registered for 1) preplant and preemergence burndown use in corn (all types, except sweet corn [and popcorn]), and wheat, 2) preplant use in soybean*, and cotton 3) directed-postemergence burndown use in grape, 4) postemergence burndown use in fallow and noncrop areas (described in Noncrop Areas section of the Use Instructions), and/or for 5) crop harvest aid/desiccation/defoliation use in cotton.

*Not for use on Soybean in California

Restrictions

- DO NOT apply this product to residential areas.
- DO NOT apply this product by air.
- DO NOT apply this product through any type of irrigation system.
- For any combination of cropping systems, DO NOT apply more than a maximum cumulative amount of 0.223 lb ai per acre per year.

Spray Carrier:

Spray carrier selection is very important to maximize effectiveness of Tiafenacil 70WG. Always use clean water (no mud or clay), clear liquid nitrogen, or complete clear liquid fertilizers with Tiafenacil 70WG. Fertilizers or water containing clay can reduce the efficacy of Tiafenacil 70WG. It is important, therefore, to never use muddy water or suspension type fertilizers containing clay as the spray carrier. Use the higher rate of Tiafenacil 70WG and appropriate adjuvant when the spray carrier is a clear liquid fertilizer containing high levels of phosphate. Always use a Methylated Seed Oil (MSO) when using liquid fertilizers such as 28% N as a spray carrier. Liquid fertilizer carriers cannot substitute for the appropriate adjuvant. When mixing Tiafenacil 70WG in liquid fertilizer carrier, always perform a jar test with all desired products to be in the tank at the appropriate ratios.

Spray Volume:

The minimum spray volume for applications of Tiafenacil 70WG is 10 gallons of final spray solution per acre. Adequate spray coverage is essential for optimal weed control. When targeting dense weed populations and/or larger weeds, and/or no-till fields where crop stubble/stover is present, use higher spray volumes (e.g. 15 to 20 gallons of final spray solution per acre).

Nozzle Selection

The use of flat-fan nozzles will result in the most effective application of Tiafenacil 70WG. Review and follow restrictions from the spray drift management section.

Application Timing and Rates:

For Tiafenacil 70WG application timing and rates, see instructions listed for each use.

Table 2. Broadleaf and grass weeds controlled (C) or suppressed (S) by applications of Tiafenacil 70WG applied to actively growing weeds at 1.0 to 1.5 oz per acre or at 0.5 to 1.5 oz per acre in tank mix with glyphosate.

	Common Name	Scientific Name	Tiafenacil 70WG	Tiafenacil 70WG + glyphosate ¹
Broadleaf	Chickweed spp.	Caryophyllaceae spp.	S	С
Weeds	Lambsquarters, common	Chenopodium album	С	С
	Ragweed, common	Ambrosia artemisiifolia	С	С
	Ragweed, giant	Ambrosia trifida	С	С
	Dandelion	Taraxacum officinale	S	С
	Hemp sesbania	Sesbania herbacea	С	С
	Henbit, common	Lamium amplexicaule	С	С
	Horseweed	Erigeron canadensis	S	S-C
	Prickly sida	Sida spinosa	С	С
	Shepherd's-purse	Capsella bursa-pastoris	С	С
	Velvetleaf	Abutilon theophrasti	С	С
	Waterhemp	Amaranthus tuberculatus	S-C	S-C
Grass	Annual bluegrass	Poa annua	S-C	С
Weeds	Barnyardgrass	Echinochloa crus-galli	S	С
	Crabgrass spp.	Digitaria spp.	S	С
	Giant foxtail	Setaria faberi	S	С
	Johnsongrass	Sorghum halepense	С	С
	Shattercane	Sorghum bicolor	S	С
	Volunteer corn	Zea mais	С	С

¹Refer to tank mixture section for details. Rating based on glyphosate – susceptible populations.

Adjuvants:

For best results, use a methylated seed oil (MSO) when applying Tiafenacil 70WG or reduced performance can occur. When using an MSO, always use a product that contains modified vegetable oil with at least 15% surfactant emulsifier. MSO should be applied at a concentration equal to 1% v/v (1 gallon per 100 gallons spray carrier) of the final spray volume.

If using a crop oil concentrate (COC), always use a product that contains at least 80% high quality petroleum (mineral). If a nonionic surfactant (NIS) is used, reduced performance can occur. If using an NIS, always use NIS containing at least 60% NIS, at a concentration equal to 0.25% v/v (2 pints per 100 gallons spray volume) of the final spray volume.

The addition of an ammonium nitrogen fertilizer, either a 28% or 32% N urea ammonium nitrate (UAN) or a spray grade ammonium sulfate (AMS), to the final spray solution is allowed. If UAN or AMS is added to the spray mixture, add UAN at a concentration of 2.5% v/v (2.5 gallons per 100 gallons or spray volume) and add AMS at a concentration of 8.5 lbs product per 100 gallons of the final spray volume.

Adjuvant Mixtures – Combinations of adjuvant products may be used at doses that are relative to the adjuvant recommendations above. It is the user's responsibility to understand whether or not the adjuvant mixture quality is equal to or better than the addition of MSO/COC, NIS, and/or fertilizer at the recommended rates above.

Tank Mixture Information:

Read and follow all label directions for each tank mixture herbicide. It is the pesticide user's responsibility to ensure that all tank mixture products are registered for the intended use. Read and follow the applicable restrictions, limitations, and directions for use on all product labels involved in the tank mixture. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

For tank mixtures, add individual components to the spray tank in the following sequence: water, dry formulated products, liquid formulated products (except in the case of glyphosate or glufosinate which should be added after liquid fertilizer or ammonium sulfate is dispersed), fertilizer (dry and/or liquid), and then adjuvants.

Tiafenacil 70WG is generally compatible with fertilizers and micronutrient products, provided sufficient free water is available for dispersion of all the tank mixture products. Use tank mixture combinations only when applicator experience indicates that the tank mixture will not result in objectionable crop injury. However, the physical compatibility of Tiafenacil 70WG with tank mix partners should be evaluated before use (see compatibility test instructions).

Tiafenacil 70WG plus Glyphosate

To improve burndown and broaden the postemergence efficacy, add glyphosate to the tank mixture with Tiafenacil 70WG. Tiafenacil 70WG can be applied at 0.5 to 1.5 oz per acre (0.023 to 0.067 lb ai per acre) in combination with glyphosate. Follow glyphosate label rate and use directions (or follow local extension recommendations).

Compatibility Test

Additives and tank mixtures should be tested for compatibility by mixing in a small container (jar test) prior to mixing in spray tank.

In a glass jar (~1 quart size), add all mix partners, in their relative proportions. Invert, shake or mix the jar thoroughly. If mixture forms precipitates (flakes or sludge), gels, balls up or forms oily films or layers, this indicates incompatibility. Though signs of incompatibility will typically be seen within 5 minutes of mixing, mixture should be observed for approximately 30 minutes.

Compatibility agents can be used to facilitate mixing. Add ¼ teaspoon of the compatibility agent to the mix (assuming a mixing rate of 2 pints compatibility agent per 100 gallons spray mix). If compatibility agents to do not facilitate mixing, the mixture is incompatible and should not be used.

Sprayer Mixing:

Mixing and Loading Instructions. Prepare no more spray mixture than is needed for the immediate application and avoid overnight storage of Tiafenacil 70WG in spray mixtures.

- 1. Ensure the spray system is free of residues from previous applications.
- 2. Fill the tank 1/2 full of clean water.
- 3. Turn on the tank agitation system.
- 4. Add the required amount of Tiafenacil 70WG and continue agitation until the Tiafenacil 70WG is completely dispersed.
- 5. As the tank is filling, add the required spray adjuvants.

Agitation should be maintained during mixing and application.

Sprayer Calibration

Equipment must be calibrated regularly according to manufacturer's specifications. Review and follow restrictions from the spray drift management section.

Spray Drift Management

- Applicators must select nozzle and pressure that deliver medium or coarser droplets as indicated in nozzle manufacturers' catalogs and in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- Do not apply more than 2 feet above the ground or plant foliage canopy.
- Do not apply when wind speeds at the application site exceed 10 miles per hour.
- Do not apply during temperature inversions.

Spray Drift Advisories

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator prioritizes between drift control and coverage.

Importance of Droplet Size:

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions

Droplet Size Management:

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure – Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use a higher-capacity nozzle instead of increasing pressure.

Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Boom Height:

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

Wind:

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Avoid applications during gusty or windless conditions.

Note: Local terrain can influence wind patterns. Every applicator needs to be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity:

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

Temperature Inversions:

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified 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.

Spray Tank Cleaning

Clean application equipment thoroughly by using a strong detergent or commercial spray cleaner according to the manufacture's direction, followed by triple rinsing the equipment before and after applying this product.

PRODUCT STEWARDSHIP INFORMATION

Resistance Management

Tiafenacil 70WG herbicide is a Group 14 herbicide that inhibits the protoporphyrinogen oxidase (PPO) enzyme in plants. Any weed population may contain or develop plants naturally resistant to Tiafenacil 70WG and to several herbicide modes of action (triazine (Group 5), ALS (Group 2), PPO (Group 14), glyphosate (Group 9), auxin (Group 4), HPPD (Group 27) and etc.). The repeated use of herbicides with the same modes of action allow resistant weeds to be selected and spread.

To help delay the development and spread of resistance to PPO inhibitors (Group 14) and other mode of actions take one or more of the following steps:

- Rotate the use of Tiafenacil 70WG or other Group 14 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and
 uses historical information related to herbicide use and crop rotation, and that considers tillage (
 or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision
 fertilizer application method and timing to favor the crop and not the weeds), biological (weedcompetitive crops or varieties) and other management practices.
- Fields should be scouted prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species;
 (3) surviving plants mixed with controlled individuals of the same species.
- If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemical means to remove escapes, as practical, with the goal of preventing further seed production.
- If a weed population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact [ISK Biosciences at 1-877-706-4640].

Always apply the full labeled rate and at the specified application timing listed on the label. Contact your local sales representative, crop advisor, or extension agent to determine if there is suspected PPO resistant weeds in your region. If PPO resistant biotypes of target weeds have been reported, use the specified application rates of this product for your conditions and add tank mix products so that there are multiple effective mechanisms of actions for each target weed.

To manage a known herbicide resistant weed population, it is important to use herbicides with varying effective modes of action as tank mix partners, in sequential applications within a growing season, and/or in a multi-year weed management plan.

Integrated Pest Management (IPM)

Tiafenacil 70WG herbicide should be used as part of an integrated pest management strategy. Consult with local university extension and agricultural professionals for IPM strategies specific for your area.

CROP – SPECIFIC USE INSTRUCTIONS

Corn (All Types, Except Sweet Corn [and Popcorn])

The maximum single application rate is 1.5 oz per acre (0.067 lb ai per acre). Do not exceed 3 ounces per acre per year (0.134 lb ai per acre per year).

Application Timing	Rate Range (oz/A)	Additional Information & Restrictions
Preplant Burndown	0.5 to 1.5	 Apply as a broadcast spray using conventional low-pressure ground spray equipment. Follow manufacturer's recommendations for spraying pressure. Review and follow restrictions from the spray drift management section. Do not reapply within 14 days. Use higher rate for dense and/or mature weed infestations.
Preemergence Burndown	0.5 to 1.5	 Apply as a broadcast spray using conventional low-pressure ground spray equipment. Follow manufacturer's recommendations for spraying pressure. Review and follow restrictions from the spray drift management section. Do not reapply within 14 days. Use higher rate for dense and/or mature weed infestations.

Cotton Preplant Application

The maximum preplant application rate is 1.5 oz per acre (0.067 lb ai per acre). Do not exceed a maximum cumulative amount of 3 ounces per acre per year (0.134 lb ai per acre per year) for all uses on cotton.

Application Timing	Rate Range (oz/A)	Additional Information & Restrictions
Preplant Burndown	0.5 to 1.5	Apply as a broadcast spray using conventional
		low-pressure ground spray equipment.
		Follow manufacturer's recommendations for
		spraying pressure.
		Review and follow restrictions from the spray
		drift management section.
		Do not apply less than 7 days between
		application and planting at the 0.5 oz/A rate.
		Do not apply less than 14 days between
		application and planting at the 1 – 1.5 oz/A
		rate.
		Use higher rate for dense and/or mature weed
		infestations.

	• Do not apply more than once per crop season.

Cotton Harvest Aid/Desiccation/Defoliation

The maximum single application rate is 1.5 oz per acre (0.067 lb ai per acre). Do not exceed a maximum cumulative amount of 3 ounces per acre per year (0.134 lb ai per acre per year) for all uses on cotton.

Application Timing	Rate Range (oz/A)	Additional Information & Restrictions
Postemergence	0.5 to 1.5	Apply a broadcast spray using conventional
		low-pressure ground spray equipment.
		Follow manufacturer's recommendations for
		spraying pressure.
		Review and follow restrictions from the spray
		drift management section.
		Do not apply within 10 days of harvest.
		Do not reapply within 7 days
		Inadequate coverage of foliage will result in
		unacceptable crop desiccation/defoliation.

Apply over the top of cotton when crop reaches physiological maturity (according to local/state extension service guidelines - such as nodes above cracked boll, accumulated heat units after cutout, or at least 60% to 70% boll opening). Allow up to 10 days for optimum desiccation/defoliation effect. Time to harvest may vary based on environmental and atmospheric conditions compared to period stated here. Larger plant size, dense canopy, and environmental conditions not conducive for desiccation may require a second application 7 days later.

Fallow

The maximum single application rate is 1.5 oz per acre (0.067 lb ai per acre). Do not exceed 4.5 ounces per acre per year (0.2 lb ai per acre per year).

Application Timing	Rate Range (oz/A)	Additional Information & Restrictions
Fallow period between	0.5 to 1.5	Apply as a broadcast spray using conventional
crop harvest and next		low-pressure ground spray equipment.
crop planting		Follow manufacturer's recommendations for
		spraying pressure.
		Review and follow restrictions from the spray
		drift management section.
		Do not reapply within 14 days
		Use higher rate for dense and/or mature weed
		infestations.

Grape

The maximum single application rate is 1.5 oz per acre (0.067 lb ai per acre). Do not exceed 4.5 ounces per acre per year (0.2 lb ai per acre per year).

Application Timing	Rate Range (oz/A)	Additional Information & Restrictions
Postemergence (Directed)	0.5 to 1.5	 Apply as a directed spray using conventional low-pressure ground spray equipment. Follow manufacturer's recommendations for spraying pressure. Review crop tolerance information section. Review and follow restrictions from the spray drift management section. Do not allow spray solution to contact green stems (except suckers) or foliage. Do not apply to grapes established less than 2 years. Do not reapply within 14 days. Do not apply within 7 days of harvest. Use higher rate for dense and/or mature weed infestations. Always apply product with an effective tank mixture partner, if electing to use the low rate.

Noncrop Areas

Do not use in residential areas.

Do not apply using handheld equipment.

For use in the non-selective burndown of vegetation on farms including: implement storage yards, fence rows, on-farm roadsides or laneways, barnyards, and windbreaks.

The maximum single application rate is 1.5 oz per acre (0.067 lb ai per acre). Do not exceed 4.5 ounces per acre per year (0.2 lb ai per acre per year).

Application Timing	Rate Range (oz/A)	Additional Information & Restrictions
For best efficacy apply	0.5 to 1.5	Apply as a broadcast spray using conventional
after weeds have		low-pressure ground spray equipment
emerged but before		mounted to a tractor or all terrain vehicle
weeds have reached		(ATV).
maturity.		Follow manufacturer's recommendations for
		spraying pressure.
		Review and follow restrictions from the spray
		drift management section.
		Do not reapply within 14 days.
		Use higher rate for dense and/or mature weed
		infestations.

Soybean (not for use in California)

The maximum single application rate is 1.5 oz per acre (0.067 lb ai per acre). Do not exceed 3 ounces per acre per year (0.134 lb ai per acre per year).

Application Timing	Rate Range (oz/A)	Additional Information & Restrictions
Preplant Burndown	0.5 to 1.5	Apply as a broadcast spray using conventional
		low-pressure ground spray equipment.
		Follow manufacturer's recommendations for
		spraying pressure.
		Review and follow restrictions from the spray
		drift management section.
		Do not reapply within 14 days.
		Use higher rate for dense and/or mature weed
		infestations.
		Refer to Table 3 below for the minimum
		preplant application timing.

Table 3. Minimum Soybean Preplant Application Timing

Rate (oz/A)	Minimum interval required between application and planting (days)	
	Coarse and Sandy Clay Loam Soils OR Soils with ≤ 2% Organic Matter	
0.5	7	0
1.0	7	7
1.5	7	7

Wheat

The maximum single application rate is 1.5 oz per acre (0.067 lb ai per acre). Do not exceed 3 ounces per acre per year (0.134 lb ai per acre per year).

Application Timing	Rate Range (oz/A)	Additional Information & Restrictions
Preplant Burndown	0.5 to 1.5	Apply as a broadcast spray using conventional
		low-pressure ground spray equipment.
		Follow manufacturer's recommendations for
		spraying pressure.
		Review and follow restrictions from the spray
		drift management section.
		Do not reapply within 14 days.
		Use higher rate for dense and/or mature weed
		infestations.
Preemergence Burndown	0.5 to 1.5	Apply as a broadcast spray using conventional
		low-pressure ground spray equipment.
		Follow manufacturer's recommendations for
		spraying pressure.

Review and follow restrictions from the spray
drift management section.
• Do not reapply within 14 days.
• Use higher rate for dense and/or mature weed
infestations.

STORAGE AND DISPOSAL

Pesticide Storage: Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.

Pesticide Disposal: Do not contaminate water, food, or feed by disposal. Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling:

[if product is in fiber drum with liner]

Nonrefillable container. DO NOT use or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into formulation equipment. Then offer for recycling, if available, or dispose of liner in a sanitary landfill or by incineration, or other procedures approved by State and local authorities. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

[if product is in foil bag]

Nonrefillable outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or other procedures approved by State and local authorities.

[if product is in plastic containers]

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 and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and 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 offer for recycling if available or dispose of empty container in a sanitary landfill or by incineration, or other procedures approved by State and local authorities.

LIMITATION OF WARRANTY AND DAMAGES

Seller warrants to those persons lawfully acquiring title to this product that at the time of first sale of this product by Seller that this product conformed to its chemical description and was reasonably fit for the express purposes stated on the label when used in accordance with Seller's directions under normal conditions of use as described on the label. To the extent consistent with applicable law, Buyers and users of this product assume the risk of any use contrary to such directions. TO THE FULLEST EXTENT PERMITTED BY LAW, EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS LIMITATION OF WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO

OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTY. AND SELLER EXPRESSLY DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND EXPRESSLY DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES THAT MAY EXIST UNDER APPLICABLE LAW. COURSE OF DEALING OR USAGE OF TRADE. NO AGENT OF SELLER IS AUTHORIZED TO GRANT ANY WARRANTY IN EXCESS OF THAT GRANTED IN THIS LIMITATION OF WARRANTY AND LIMITATION OF DAMAGES. TO THE FULLEST EXTENT PERMITTED BY LAW, IN NO **EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES** RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT. TO THE FULLEST EXTENT PERMITTED BY LAW, SELLER'S LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT AS TO WHICH A CLAIM IS MADE. To the fullest extent permitted by law, Buyers and users of this product are responsible for all loss or damage from use or handling of this product that results from conditions beyond the control of Seller, including, but not limited to, incompatibility with other products (unless otherwise expressly provided for in the Directions for Use of this product), weather conditions, cultural practices, moisture conditions or other environmental conditions outside of the ranges that are generally recognized as being conducive to good agricultural and/or horticultural practices.

[Optional Alternate Warranty]

[WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE EXCEPT AS WARRANTED BY THIS LABEL. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW,

MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR RISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.]

TERGEO is a trademark of Ishihara Sangyo Kaisha, Ltd.

[NOTES TO REVIEWER:]

[Any text found in brackets "[" "]" is optional on container label.]

[HELM may distribute or sell this product under labeling bearing any subset of the approved directions for use, provided that in limiting the uses listed on the label, no changes would be necessary in precautionary statements, use classification, or packaging of the product.]