

61842-27

07-07-2010

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 <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460</p> <p>NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)</p>	EPA Reg. Number: 61842-27	Date of Issuance: JUL 7 2010
	Term of Issuance: Unconditional	
	Name of Pesticide Product: Sinbar WDG	

Name and Address of Registrant (include ZIP Code):

Tessengerlo Kerley, Inc. 2255 North 44 th Street, Suite 300 Phoenix, AZ 85008-3279	c/o Pyxis Regulatory Consulting, Inc. 4110 136 th Street NW Gig Harbor, WA 98332
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~~Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.~~

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA provided that you:

1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Submit one-year Storage Stability (Guideline 830.6317) and Corrosion Characteristics (Guideline 830.6320) studies within one-year from the date of this notice.
3. Make the following label changes:
 - a. Change the EPA Reg. No. to "61842-27".
 - b. Remove the Hazards to Humans and Domestic Animals statement "Wash thoroughly with soap and water after handling." since it is stated in the User Safety Recommendations section.
 - c. Change the Environmental Hazards phrase to read "equipment washwaters or rinsate".
 - d. It is suggested that the resistance-management grouping symbols be placed on the front panel of the label as described in PR Notice 2001-5.

Continued on Page 2

Signature of Approving Official: Jim Tompkins Product Manager 25 Herbicide Branch Registration Division (7505P)	Date: JUL 7 2010
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- e. On page 2, change the Use Precautions phrase to “(except as **directed** for crop use)”
- f. On page 2, change the Directions for Use statements to “SINBAR WDG **must** be used only in accordance with **directions** on this label, or in separate published Tessengerlo Kerley, Inc. **directions** available through local dealers.” and “Tessengerlo Kerley, Inc. will not be responsible...in any manner not specifically **directed** by Tessengerlo Kerley, Inc. User assumes all risk associated with such **non-directed** use.”
- g. On page 3, change the Weed Control statement to “See “Crops” section for ~~recommended~~ use rates for specific crops.”
- h. On page 4, change the Alfalfa Northeast restriction to “Two applications may be made but **must** be at least 60 days apart and must not exceed 1 ½ pounds per year.”
- i. On page 4, change the Postharvest phrase to “SINBAR WDG is **registered** as a postharvest application on alfalfa, only in Oklahoma...”
- j. On page 5, change the heading to “ALFALFA – USE **RESTRICTIONS AND PRECAUTIONS**”.
- k. On page 5, change the Tree Fruit phrase to “SINBAR WDG is **registered** for use in newly planted and young non-bearing Apple, Apricot, Cherry, Peach, Pear, and Plum trees.”
- l. On page 7, change the Grass Seed Crops to “SINBAR WDG **controls weeds** in the following grass seed crops:...”
- m. On page 7, change the heading to “Use **Restrictions and Precautions** – Grass Seed Crops”.
- n. On page 8, change the Hybrid Poplar Plantings phrase to “SINBAR WDG is **registered** for control of weeds to aid in the establishment of hybrid poplar plantings.”
- o. On page 8, change the heading to “**USE RESTRICTIONS AND PRECAUTIONS – HYBRID POPLAR PLANTINGS**”.
- p. On page 9, change the heading to “**USE RESTRICTIONS AND PRECAUTIONS – STRAWBERRY**”.
- q. On page 10 under Important of Droplet Size, remove “(>150 – 200 microns)” as it is an improper description of large droplet size according to the ASABE S572 standard.
- r. On page 11, change the Pesticide Disposal statement to read “**Wastes** resulting from the use of this product **must** be disposed of on site or at an approved waste disposal facility.”

- s. On page 11, change the warranty statement to "**To the extent consistent with applicable law**, except as warranted by this label, Tessengerlo Kerley, Inc. makes no other warranties...for any particular purpose."

The basic confidential statement of formula (CSF) dated January 5, 2010 is acceptable.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of the revised final printed label before you release the product for shipment. Products shipped after eighteen (18) months from the date of this notice or the next printing of the label, whichever occurs first, must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA §6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Enclosure

Sinbar® WDG

Herbicide

Active Ingredient	By Weight
Terbacil [3-tert-butyl-5-chloro-6-methyluracil]	80%
Other Ingredients	20%
TOTAL	100%

EPA Reg. No. 61842-xx 27

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION

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.)

FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have a 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.

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 eyes. Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-374-1975 for emergency medical treatment information.

ACCEPTED
with COMMENTS
in EPA Letter Dated

JUL -7 2010

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

61842-27

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride
- Shoes plus socks

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.

ENGINEERING CONTROL STATEMENT

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

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

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. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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

Terbacil has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion. This chemical also has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Net Weight:

PRODUCT INFORMATION

SINBAR® WDG is a wettable powder to be mixed in water and applied as a spray for selective weed control in certain crops. It is non-volatile, non-flammable, and non-corrosive to equipment.

SINBAR® WDG controls susceptible weeds for an extended period of time; the degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions. Soils high in clay or organic matter require higher dosages than soils low in clay or organic matter to obtain equivalent herbicide performance. Moisture is required to activate the chemical; best results occur if rainfall (or sprinkler irrigation) occurs within 2 weeks after application.

Observe all cautions and limitations on labeling of all products used in mixtures.

USE PRECAUTIONS

Injury to or loss of desirable trees or other plants may result from failure to observe the following:

Do not apply (except as recommended for crop use), or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Do not use in home planting of fruits, nuts or other crops nor in apple or peach orchards interplanted with other trees or desirable plants. Prevent drift of dry powder or spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides, and seeds. Thoroughly clean all traces of SINBAR® WDG from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water removing nozzle tips and screens (clean these parts separately).

Reduced weed control may occur when fields to be treated with SINBAR® WDG have been previously treated with sludge, or other by-products, from sewage or manufacturing facilities that are high in organic matter.

RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have

a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

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.

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.

SINBAR® WDG should be used only in accordance with recommendations on this label, or in separate published Tessengerlo Kerley, Inc. recommendations available through local dealers.

Tessengerlo Kerley, Inc. will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by Tessengerlo Kerley, Inc. User assumes all risk associated with such non-recommended use.

Do not use in the state of California.

AGRICULTURAL USES

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
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

SELECTIVE USE IN CROPS

WEED CONTROL

Best results are obtained if application is made shortly before or shortly after weed growth begins; if dense growth is present, remove tops and spray the ground. SINBAR® WDG may not provide adequate control of established perennial grasses such as orchardgrass, bromes, fescues, and timothy. Control of perennial grasses may be improved by cultivation prior to treatment; otherwise, avoid working the soil as long as weed control continues or else effectiveness of the treatment may be reduced. For alfalfa, the soil should not be disturbed. See "Crops" section for recommended use rates for specific crops.

SINBAR® WDG, at rates of 1/2 to 1 1/2 pounds per acre controls annual weeds including species of:

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|----------------------------|--------------------------------|
| Barley, wild | <i>Hodeum leporinum</i> |
| Brome, downy | <i>Bromus tectorum</i> |
| Chickweed | <i>Stellaria media</i> |
| Crabgrass | <i>Digitaria spp.</i> |
| Flixweed | <i>Descurainia sophia</i> |
| Henbit | <i>Lamium amplexicaule</i> |
| Lambsquarter | <i>Chenopodium album</i> |
| Lettuce, prickly | <i>Lactuca serriola</i> |
| Mustard, wild | <i>Brassica kaber</i> |
| Mustard, Jim Hill (tumble) | <i>Sisymbrium altissimum</i> |
| Peppergrass, (seedling) | <i>Lepidium latifolium</i> |
| Ryegrass, annual | <i>Lolium multiflorum</i> |
| Shepherdspurse | <i>Capsella bursa-pastoris</i> |
| Speedwell, snow (snowweed) | <i>Veronica biloba</i> |
| Tansymustard | <i>Descurainia pinnata</i> |
| Yellow rocket | <i>Barbarea vulgaris</i> |

Treatment will not control established perennial bindweeds Johnsongrass and Canada thistle.

Rates of 1 to 4 pounds per acre control annual weeds including species of:

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|--------------------------------|---------------------------------|
| Barnyardgrass | <i>Echinochloa crus-galli</i> |
| Bluegrass, annual | <i>Poa annua</i> |
| Bumweed, American (fireweed) | <i>Erechtites hieracifolia</i> |
| Clover | <i>Trifolium spp.</i> |
| Crotalaria, showy | <i>Crotalaria spectabilis</i> |
| Crowfootgrass | <i>Dactyloctenium aegyptium</i> |
| Dandelion (seedling) | <i>Taraxacum officinale</i> |
| Dog fennel (mayweed chamomile) | <i>Anthemis cotula</i> |
| Fiddleneck, coast | <i>Amsinckia intermedia</i> |
| Foxtail | <i>Setaria spp.</i> |
| Geranium, wild | <i>Geranium spp.</i> |
| Guineagrass | <i>Panicum maximum</i> |
| Horseweed (marestail) | <i>Coryza canadensis</i> |
| Jimsonweed | <i>Datura stramonium</i> |
| Johnsongrass (seedling) | <i>Sorghum halepense</i> |
| Junglerice | <i>Echinochloa colona</i> |
| Knotweed, prostrate | <i>Polygonum aviculare</i> |
| Knotweed, erect | <i>Polygonum erectum</i> |
| Natalgrass | <i>Rhynchelytrum repens</i> |
| Nightshade (annual) | <i>Solanum spp.</i> |
| Orchardgrass (seedling) | <i>Dactylis glomerata</i> |
| Paintbrush, Flora's | <i>Emilia sonchifolia</i> |
| Panicum | <i>Panicum spp.</i> |
| Pepperweed (annual) | <i>Lepidium perfoliatum</i> |
| Purslane, common | <i>Portulaca oleracea</i> |
| Pusley, Florida | <i>Richardia scraba</i> |
| Ragweed, common | <i>Ambrosia artemisiifolia</i> |
| Sandbur (sandspur) | <i>Cenchrus spp.</i> |
| Signalgrass, broadleaf | <i>Brachiaria platyphylla</i> |
| Smartweed | <i>Polygonum spp.</i> |

In addition, treatment usually provides partial control of species of:

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|------------------|----------------------------|
| Groundsel | <i>Senecio spp.</i> |
| Horsenettle | <i>Solanum carolinense</i> |
| Nutsedge, yellow | <i>Cyperus esculentus</i> |
| Quackgrass | <i>Agropyron repens</i> |
| Sorrel, red | <i>Rumex acetosella</i> |

Rates of 2 to 3 pounds per acre control annual weeds including species of:

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|---------------------|--------------------------------|
| Cinquefoil | <i>Potentilla spp.</i> |
| Hawkweed | <i>Hieracium spp.</i> |
| Redroot | <i>Lachnanthes caroliniana</i> |
| Ryegrass, perennial | <i>Lolium perenne</i> |
| Sedge, annual | <i>Cyperus compressus</i> |

APPLICATION INFORMATION

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

Unless otherwise directed, apply with a fixed-boom power sprayer properly calibrated to a constant speed and rate of delivery. Use sufficient spray volume to provide thorough and uniform coverage of the area to be treated.

Continuous agitation in the spray tank is required to keep the material in suspension. Avoid overlapping, and shut off spray booms while starting, turning, slowing or stopping, or injury to the crop may result.

SPRAY PREPARATION

Mixing in water - Fill tank 1/2 full with water. Start agitation system, add SINBAR® WDG and continue adding water. Add separately each additional component of any tank-mix while adding water. Continue agitation throughout.

USE RATES

All dosages of SINBAR® WDG are expressed as broadcast rates; for band treatment, use proportionately less. Where a range of dosages is given, use the lower rate on coarse textured soils (low in clay or organic matter) and the higher rate on fine textured soils (high in clay or organic matter).

SOIL LIMITATIONS

Crop injury may result from failure to observe the following: Unless otherwise directed, do not use SINBAR® WDG on sand or gravel soil types. For other soil types (e.g. sandy loam and loamy sand) that contain less than 1% organic matter, limit initial use of SINBAR® WDG to a small area to determine crop response prior to treating larger acreage. Severe crop injury may occur when SINBAR® WDG is used on soils having less than 1% organic matter.

REPLANTING

Do not replant treated areas to any crop within 2 years after last application as injury to the subsequent crop(s) may result. In arid climates (10 inches of annual rainfall or less) or areas where drought conditions have prevailed for one or more years, or where normal irrigation practices were not followed after the last application of SINBAR® WDG, a field bioassay should be completed prior to planting any desired crop(s). The results of the bioassay may require the two-year crop rotation interval to be extended. A successful field bioassay means growing to maturity a test strip of the crop(s) intended for production. The test crop(s) strip should cross the entire field including knolls and low areas.

CROPS

ALFALFA

Established Alfalfa (Established 1 year or longer)

U.S. (Except NORTHEAST)

SINBAR® WDG may be used for the control of seedling annual weeds in alfalfa established for 1 year or longer. Apply at rates of 1/2 to 1 1/2 pounds per acre. Make a single application of SINBAR® WDG either in the fall after plants become dormant or in the spring before new plant growth begins. For semi-dormant and non-dormant varieties, apply in the fall or winter after the last cutting or in the spring before new growth begins. Apply before or after emergence of weeds but before they exceed either 2 inches in height or width. SINBAR® WDG may not provide adequate control of established perennial grasses such as bromes, fescues, orchardgrass or timothy.

SINBAR® WDG may be applied by aerial application equipment. Use a minimum spray volume of 5 gallons per acre.

NOTE: Do not apply to established stands after new growth begins in the spring as injury to the crop may result.

Do not apply to stands lacking good crop vigor (under stress) due to winter kill, insect or disease injury or other causes.

Do not use in California.

NORTHEAST

Apply SINBAR® WDG at the rate of 3/4 to 1 1/2 pounds per acre (ground application only) to alfalfa that is dormant (fall through winter). Alternately, make the application in the spring before initial new growth exceeds 2 inches in height or to stubble after cutting, following hay removal and before regrowth exceeds 2 inches in height. Two applications may

be made but should be at least 60 days apart and must not exceed 1 1/2 pounds per year.

For winter annual weeds and early germinating summer annuals, applications of SINBAR® WDG during dormancy or before new spring growth exceeds 2 inches in height provides the best results. Late germinating annual grasses and broadleaf weeds are controlled with an after cutting treatment. Where an early application is made for control of winter annual weeds and early germinating summer grasses and broadleaves are expected to be a problem, a second application (after cutting) may be applied for improved results, provided the total applied does not exceed 1 1/2 pounds per year.

POSTHARVEST APPLICATIONS-OKLAHOMA ONLY

SINBAR® WDG is recommended as a postharvest application on alfalfa, only in Oklahoma, for the control of pigweed (Amaranthus spp.) and the suppression* of other warm season annual weeds such as crabgrass and foxtails.

Apply SINBAR® WDG at the rate of 1/2 to 3/4 pound per acre to alfalfa stubble after cutting, following hay removal, and before alfalfa regrowth exceeds 2" in height. Two applications (dormant and/or postharvest) may be made but must be at least 60 days apart and must not exceed 2 pounds per year.

Best results are obtained when SINBAR® WDG is applied prior to weed emergence but before weeds are 2" in height or width, and 3/4" of rainfall or sprinkler irrigation occurs within two weeks of application.

Do not apply after June 15 or to first year, spring-seeded alfalfa.

Do not apply more than 1/2 pound per acre to fall seeded, first year stands of alfalfa.

*Suppression: Weed suppression is a visual reduction in weed competition (reduced population and/or vigor) as compared to an untreated area. Degree of suppression and duration of effect on weeds will depend on weed density, condition of seed bed, timing, and amount of rainfall following application and growing conditions following application.

Seedling Alfalfa (Established less than 1 year)

OREGON AND WASHINGTON:

SINBAR® WDG when applied at reduced rates of 1/4 to 1/2 pound per acre (depending on organic content of the soil and tap root depth) selectively controls downy brome, henbit, flixweed, Jim Hill mustard and shepherd's-purse in seedling alfalfa.

Apply SINBAR® WDG after alfalfa is dormant in late winter or early spring but before alfalfa has more than 2" of new growth.

For best results on Downy Brome, apply SINBAR® WDG at 1/2 pound per acre for preemergence and early postemergence control if sufficient rainfall occurs to move SINBAR® WDG into the root zone before downy brome is beyond the 2-leaf stage. For control of downy brome on soils where lower rates of SINBAR® WDG must be used, tank mix with pronamide herbicide.

Sandy Soils with 0.5 - 0.9% Organic Matter -

Apply 1/4 - 1/3 pound per acre to seedling alfalfa stands which have a minimum 6" tap root depth throughout the field. First time application should be limited to a small area to determine crop safety.

Note: User must accept risk of possible crop damage on these low organic matter sandy soils. Crop injury may result in areas of spray overlap.

Soils with at least 1% Organic Matter -

Apply 1/4 - 1/3 pound per acre on sandy soils where seedling alfalfa has a minimum 4" tap root depth throughout the field.

Apply 1/2 pound per acre on loam, silt and clay soils where seedling alfalfa has a minimum 4" tap root depth throughout the field.

Note: It is very important to determine seedling alfalfa tap root length throughout the field before using SINBAR® WDG.

Alfalfa growing on north facing slopes, areas that do not receive enough moisture or are poorly drained and areas where weed competition is heavy can have smaller root systems compared to other areas of the field. Significant crop injury can occur in areas where the alfalfa root system is smaller than specified.

TANK MIXTURES: WITH 2,4-DB

SINBAR® WDG in combination with rates as low as 1/2 pound active ingredient per acre (1 qt of 2 pounds per gallon product) of 2,4-DB may be used.

PENNSYLVANIA AND VIRGINIA:

Seedling and Established Stands -Common chickweed and henbit may be selectively controlled using SINBAR® WDG in alfalfa at reduced rates of 1/3 to 1/2 pound per acre.

- Apply SINBAR® WDG to alfalfa seeded from late summer to early fall that is at least 2" in height and has a minimum of 4 trifoliolate leaves. Applications should be made in the fall or early spring before weeds exceed 2" in height.
- Apply SINBAR® WDG to spring seeded alfalfa that has been established for 6 months or longer. Spring applications should be made before new growth exceeds 2" in height. Fall applications should be made to the stubble after the last cutting following hay removal, and before new growth exceeds 2" in height.

TANK MIXES AND SEQUENTIAL TREATMENTS (Seedling and Established Alfalfa)

SINBAR® WDG can be applied either alone or in a program involving tank mixes and/or sequential treatments with other herbicides, fungicides, or insecticides registered for use on alfalfa. Tessenderlo Kerley, Inc. recommends that you first consult your state experiment station, university, or extension agent, or fieldsman as to expected crop response to mixtures or sequential treatments. If no information is available, limit the initial use to a small area.

ALFALFA - USE PRECAUTIONS

- Use on sand, loamy sand or gravelly soils, or on soils low in organic matter (less than 1 percent), may result in severe crop injury.
- Tank mixes and sequential treatments with other herbicides can increase the risk of crop injury. To avoid crop injury, when using in a tank mix with other herbicides, use the lower end of the use rate range for SINBAR® WDG unless prior experience supports higher rates.

- When using any tank mix or sequential treatment for the first time, limit use to a small area to determine crop safety before treating large areas.
- Do not apply SINBAR® WDG and paraquat as a sequential treatment as severe crop injury can occur.
- Do not use on alfalfa-grass mixtures or other mixed stands.
- Do not use with surfactants, unless specified otherwise in this labeling, or other supplemental labeling.
- Do not apply on snow covered or frozen ground, as injury to the crop or poor weed control may result.
- Applications should be made to young, actively growing weeds before they exceed 2" in height. Applications made at other growth stages may result in reduced weed control depending on the species, stage of growth and/or environmental conditions.
- Applications made to plants under stress and/or cold temperatures (less than 40° F) may result in reduced or no control.
- Avoid overlap as severe crop injury may result.
- Temporary yellowing, stunting and/or reduction of first cutting yield may occur when applications are made to new alfalfa growth, or actively growing seedling alfalfa.

TREE FRUIT

NON-BEARING FRUIT TREES (Young, Newly Planted)

SINBAR® WDG is recommended for use in newly planted and young non-bearing Apple, Apricot, Cherry, Peach, Pear, and Plum trees.

For control of annual weeds in newly-planted fruit trees, apply SINBAR® WDG at 0.5 to 1 pound per acre by ground application.

Make the first application after a significant rainfall or irrigation event that will allow the soil to settle around the base of the tree prior to application. Make 1 to 2 applications per season.

SINBAR® WDG may be tank mixed with KARMEX® XP to broaden the weed control spectrum in Apples and Peaches.

In the Columbia Basin of Washington, make a single application in either the spring or the fall.

Do not use on soils that are coarser than sandy loam.

Do not use on soils with less than 1% organic matter.

Do not use more than 1 pound per acre per year.

Do not use in the state of California.

APPLES, PEACHES

SINBAR® WDG may be used alone or in a tank mixture with other herbicides registered for use in Apples and Peaches, such as, glyphosate, paraquat, oryzalin, pendimethalin, simazine, diuron and norflurazon. Refer to the tank mixture partner label for any additional use information or restrictions. Follow the label guidelines that are the most restrictive.

Make a band or broadcast application of SINBAR® WDG as a directed spray; avoid contact of foliage and fruit with spray

or mist. Apply either in the spring or after harvest in the fall before weeds emerge or during early seedling stage of weed growth. Where complete weed control to harvest is desired, additional weed control measures may be required during the growing season.

When crops are grown under furrow irrigation or under raised-berm flood irrigation (trees 4 to 6 inches above the waterline), apply SINBAR® WDG only as a band treatment. Do not treat trees planted in the bottom of irrigation furrows or trees grown under flat flood or basin irrigation. Do not use on eroded areas where sub-soil or tree roots are exposed as injury to trees may result.

To determine organic matter content of the soil, take a composite of several samples of soil. Take soil samples down to 6 inches deep. Remove any surface debris from sampling area prior taking the sample.

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

Do not apply SINBAR® WDG within 60 days of harvest.

Do not use in the state of California.

In the Columbia Basin of Washington, make a single application in either the spring or the fall.

SINBAR® WDG Alone--Use only under trees established in the orchard for at least 3 years.

SINBAR® WDG -- Pounds Per Acre

Soil Texture Description	1 to 2% Organic Matter	More Than 2% Organic Matter
Sandy loam	2	3
Loam, silt loam, silt	2½	3½
Clay loam, clay	3	4

SINBAR® WDG + a diuron containing herbicide, such as KARMEX® XP -- Use only under trees established in the orchard for at least 1 year.

SINBAR® WDG + KARMEX® XP -- Pounds Per Acre

Soil Texture Description	1 to 2% Organic Matter	More Than 2% Organic Matter
Sandy loam	1+1	1½ + 1½
Loam, silt loam, silt	1½ + 1½	2+2
Clay loam, clay	2+2	2+2

ASPARAGUS

Direct Seeded--Plant seed 1½ inches deep in coarse soils and 1 inch deep in fine soils. During planting operation, spray activated charcoal (such as Aqua NuChar[†] or Gro-Safe^{††}) as a 1 inch band on soil surface directly over rows at a rate of 300 pounds per acre (broadcast basis equivalent to 15 pounds per acre where row spacing is 20 inches). Follow with SINBAR® WDG as a single spray at 1 to 2 pounds per acre. Use the lower rate on coarser soils and the higher rate on finer soils.

Established Beds--Apply 1½ to 2½ pounds SINBAR® WDG per acre prior to spear emergence. Application may be

made immediately after clean cutting. Use the lower rate on coarse textured soils and the higher rate on fine soils.

Do not apply more than 1½ pounds per acre per application.

In the Columbia Basin, use SINBAR® WDG at 0.5 pound per acre on coarse textured soils having 0.5 to 0.9% organic matter. On coarse textured soils have 1.0% organic matter or more, use SINBAR® WDG at 0.5 to 0.75 pounds per acre. On medium to fine textured soils, SINBAR® WDG can be used at 1.0 to 2.0 pounds per acre. When using SINBAR® WDG for the first time on a particular field, use the lowest recommended rate for that soil until experience demonstrates that higher rates can be used safely.

Apply before weeds emerge or to small weeds (1/2 to 2 inches tall or across).

High organic soils absorb SINBAR® WDG so that it is substantially inactivated as a soil residual herbicide. On these soils, weed control is provided by postemergence foliar uptake only. Apply 1 to 2 applications of SINBAR® WDG not exceeding 2½ pounds per acre per year.

Note: Do not use on areas where subsoil or roots are exposed. Do not use on plants that are diseased or lacking in vigor, as injury to the crop may result. Do not harvest within 5 days after application. Treated areas may be planted to asparagus one year after application. Otherwise, do not replant to any other crop within two years after last application.

[†] Aqua NuChar - Registered trademark of Westvaco Corp.

^{††} Gro-Safe - Registered trademark of ICI Americas, Inc.

BLUEBERRIES

Treat only plantings established for 1 year or more. Make a single band or broadcast application to ground beneath bushes; avoid contact of foliage and fruit with spray or mist. Apply either in the spring or after harvest in the fall before weeds emerge or during early seeding stage of weed growth. Do not use on eroded areas where subsoil or roots are exposed, nor on plants that are diseased or lacking in vigor, as injury to the plants may result. Treated areas may be planted to blueberries one year after last application.

Pounds SINBAR® WDG in Min. 25 Gals. Water Per Acre

Soil Texture Description	1 to 3% Organic Matter	More Than 3% Organic Matter
Sand, Loamy Sand	Do not use	2
Sandy Loam, Loam, Silt Loam, Silt, Sandy Clay	2	3
Sandy Clay, Loam, Silty Clay, Silty Clay Loam, Clay	3	3
Clay Loam	3	3

MAINE, MARYLAND, NEW JERSEY

Apply as directed above, or, for broader spectrum weed control apply as a tank mix with KARMEX® XP:

Pounds SINBAR® WDG + KARMEX® XP Per Acre

Soil Texture Description	1 to 3% Organic Matter	More Than 3% Organic
Sand, Loamy Sand	Do not use	2+2
Sandy Loam	2+2	2½+2
Loam, Silt Loam, Silt, Sandy Clay, Sandy Clay Loam	2½+2	3+2
Silty Clay, Silty Clay Loam, Clay, Clay Loam	3+2	3+2

Do not replant areas treated with SINBAR® WDG + KARMEX® XP to crops other than blueberries within two years after application, as injury to those crops may result.

CANEBERRIES

(Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries, Youngberries)--Treat only plantings established for 1 year or more. Make a single band or broadcast application of 1 to 2 pounds per acre in a minimum of 20 gals. of water to the soil beneath the canes in the fall or early spring before fruitset and before weeds emerge or during the early stage of weed growth. Do not spray foliage nor use on eroded areas where subsoil or roots are exposed, nor apply to plants that are diseased or lacking vigor as injury to the plant may result. Treated areas may be planted to mint, alfalfa, blueberries, apples or peaches 1 year after last treatment. Do not replant to other crops within 2 years of last application. Do not apply within 70 days before harvest.

GRASS SEED CROPS

SINBAR® WDG is recommended for weed control in the following grass seed crops: Kentucky Bluegrass, Bromegrass, Creeping Red Fescue, Chewings Fine Fescue and Tall Fescue. Grass seed crops must be established for at least one growing season prior to the SINBAR® WDG application.

Application Information

SINBAR® WDG is to be mixed in water and applied as a spray by fixed-boom ground application equipment. Apply in sufficient spray volume to ensure thorough coverage of the area to be treated. Avoid overlapping of the spray swath and shut off boom while either starting, stopping, slowing or turning to prevent crop injury.

For best results, straw, trash and/or duff should be removed from the field prior to application. Also, where field burning is practiced, allow wind and rain to disperse and dilute the ash prior to application. Weed control may not be satisfactory if there is a heavy layer of ash or straw on the field at time of application.

Best weed control is obtained when the application is made after rainfall or irrigation has recharged the soil profile but before weeds have become established. Approximately 0.5 to 1.0 inch of rainfall or irrigation is needed to move

SINBAR® WDG into the weed root zone. Weed control is best when the rainfall or irrigation occurs within two weeks after application. Weed control may not be satisfactory if weeds become well established before rainfall/irrigation moves SINBAR® WDG into the weed root zone.

Application Timing

Apply after harvest during the fall and winter months. For early fall applications, wait until soil and air temperatures have moderated with daytime temperatures in the 70's or lower and nighttime temperatures in the 50's or lower. Treatments made during hot weather in the fall can result in crop injury.

Application Rates

Where a rate range is indicated, use the lower end of the rate range on coarse textured soils, (e.g., sandy loam, loam) and the higher rate range on fine textured soils, (e.g., silt loam, clay loam).

Tank Mixes

SINBAR® WDG may be tank mixed with other registered herbicides. When using a tank mix for the first time, test the spray mixture on a small area to determine crop safety before treating large areas.

Checking Soil Classification and Organic Matter

Before using SINBAR® WDG, determine the soil classification and organic matter content of the grass seed crop area to be treated. To obtain a representative soil classification and organic matter content for the test area, take several 0-6 inch deep soil samples from different areas and analyze them separately. Consult local extension publications for additional information on recommended soil sampling procedures.

Soils With 1.0 to 1.4% Organic Matter

Apply SINBAR® WDG at 0.5 pound per acre in Tall Fescue.

Soils With 1.5 to 1.9% Organic Matter

Apply SINBAR® WDG at 0.5 to 0.75 pound per acre in Kentucky Bluegrass, and at 0.5 pound per acre in Tall Fescue.

Soils With at least 2% Organic Matter

Apply SINBAR® WDG at the rate of 0.5 to 1.0 pound per acre for control of seedling annual broadleaf weeds in Kentucky Bluegrass, Bromegrass, Creeping Red Fescue, Chewings Fine Fescue and Tall Fescue. For control of seedling grasses, use 0.75 to 1.0 pound per acre.

WEEDS CONTROLLED

Bluegrass, annual	<i>Poa annua</i>
Brome, downy (cheatgrass)	<i>Bromus tectorum</i>
Henbit	<i>Lamium applexicaule</i>
Ryegrass, annual	<i>Lolium multiflorum</i>
Ventenata	<i>Ventenata dubia</i>
Parent Crop Seedlings	

Use Precautions - Grass Seed Crops

Different varieties of grass grown for seed may be sensitive to SINBAR® WDG. When using SINBAR® WDG on a new variety, treat a small area of the field to determine crop sensitivity prior to treating large areas.

Crop injury may occur if applications of SINBAR® WDG are made to an actively growing grass seed crop. Applications of SINBAR® WDG to grass seed crops under

stress caused by any environmental conditions, such as cold weather, excessive moisture, drought, disease, insects or nematodes, may result in crop injury.

- Do not allow livestock to graze in treated fields or feed hay produced before harvest. Feeding of straw after seed harvest is allowed.
- Do not apply within 90 days of harvest.
- Do not use SINBAR® WDG on soils having less than 1.0% Organic Matter, or on gravelly soils or on thinly covered or exposed subsoil areas (clay knobs).
- Do not make more than one application of SINBAR® WDG per year.

HYBRID POPLAR PLANTINGS

SINBAR® WDG is recommended for control of weeds to aid in the establishment of hybrid poplar plantings.

USE RATES AND SOIL RESTRICTIONS

Apply SINBAR® WDG at 1 to 2 lbs. per acre. Use 1 to 1½ lbs. per acre on coarse textured soils and 1½ to 2 lbs. per acre on medium to fine textured soils. Do not use on gravelly soils or on any soil having less than 0.5% organic matter as injury to trees may result.

APPLICATION TIMING

Apply in late winter or early spring as a uniform broadcast spray before or after planting but prior to bud swell, or as a directed spray after bud swell.

Preplant: If application is made prior to planting, take precautions to prevent treated soil (usually top 1") from coming into contact with roots of trees during the planting process as injury may result.

Postplant: If application is made after planting, it is best to wait until rain or irrigation has settled the soil around the newly planted trees before applying SINBAR® WDG.

If trees are dormant, a broadcast application can be made. If buds have started to swell, use a directed spray pattern that prevents SINBAR® WDG from contact with trees as injury may result.

FOR BEST WEED CONTROL RESULTS

Apply SINBAR® WDG before weeds emerge or after emergence while weeds are small. Rainfall or overhead irrigation is necessary to move SINBAR® WDG into the weed root zone before weeds become well established. If weeds are present at time of treatment, add a surfactant at 1 to 2 qts. per 100 gals. of spray solution.

TANK MIXES

SINBAR® WDG can be tank mixed with other products that are registered for use on hybrid poplars and where the labeled method of application and timing of application are the same as for SINBAR® WDG.

PRECAUTIONS

- Do not apply to trees which are under stress from low fertility, disease, insect damage, severe weather conditions or water saturated soils, as injury may occur. Severe weather stress, disease or insect damage following application may also result in crop injury.
- Do not apply to frozen soil.
- Do not apply through any type of irrigation system.

- Do not plant treated areas to any other crop for 2 years after last application.
- When using SINBAR® WDG for the first time on a new hybrid line, limit use to a small area to determine selectivity before using on a field scale.
- When using SINBAR® WDG with a glyphosate herbicide, avoid contact with foliage, green stems, trees or other desirable vegetation because severe damage may result.

MINT (Peppermint, Spearmint)

Preemergence Application: Make a single broadcast application of 1 to 2 pounds per acre before mint emerges. Preemergence treatments may be applied by either ground or aerial application equipment. Use a minimum spray volume of 5 gallons per acre for aerial applications.

Midwest: Apply in the spring just after the last cultivation.

Pacific Northwest:

West of Cascade Mountains--Apply in spring or fall after last cultivation.

East of Cascade Mountains--Apply any time after the first settling rain in the fall, but not when ground is frozen. If moisture is inadequate to activate the chemical, irrigation by sprinkler must follow fall or winter treatment as soon as soil thaws in the spring (or promptly after spring treatment) or poor weed control may result.

MINT - WEEDS CONTROLLED (Pacific Northwest) 1 to 2 pounds per acre

Chickweed	<i>Stellaria media</i>
Dog fennel	<i>Anthemis cotula</i>
Filaree	<i>Erodium spp</i>
Henbit	<i>Lamium amplexicaule</i>
Mustard, Jim Hill	<i>Sisymbrium altissimum</i>
Nightshade (annual)	<i>Solanum spp</i>
Pepperweed, annual	<i>Lepidium perfoliatum</i>
Shepherd's-purse	<i>Capsella bursa-pastoris</i>
Tansymustard	<i>Descurainia pinnata</i>

WEEDS SUPPRESSED*

Barnyardgrass	<i>Echinochloa crus-galli</i>
Bluegrass, annual	<i>Poa annua</i>
Brome, downy	<i>Bromus tectorum</i>
Falseflax, smallseed	<i>Camelina microcarpa</i>
Knotweed	<i>Polygonum spp</i>
Lambsquarter	<i>Chenopodium alba</i>
Nutsedge	<i>Cyperus spp</i>
Quackgrass	<i>Elytrigia repens</i>
Thistle, Russian	<i>Salsola iberica</i>
Vetch	<i>Vicia spp</i>

*Suppression - a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

Postemergence Application (Midwest and Pacific Northwest): Apply 1 to 1½ pounds per acre before weeds are 2" tall (or across) and grasses are 1" tall (or across). Add 1/2 to 1 pt. surfactant to each 25 gals. of spray; non-phytotoxic superior-type spray oil may be substituted at the rate of 1 gal. per acre. If preemergence treatment has not been applied, a second postemergence application may be made but do not exceed 2 pounds total per acre per season. Do not apply within 60 days of harvest.

Preemergence + Postemergence: Apply as directed above. Do not apply more than 2 pounds total per acre per season; do not apply within 60 days of harvest.

Note: For either newly planted roots or established mint, soil must be well prepared before preemergence application. Crop injury and/or poor weed control may result if application is made to ground which is cloddy or compacted, resulting in exposed or improperly covered roots. Do not apply to newly planted roots that are diseased or lacking in vigor, nor on thinly covered or exposed subsoil areas as injury to the crop may result. Use of insecticides in fields where SINBAR® WDG is applied may result in injury to the mint; observe use limitations on insecticide labels. Treated areas may be planted to mint one year after last application.

STRAWBERRY

MATTED-ROW STRAWBERRY PRODUCTION SYSTEMS

Planting Year

Apply 2 to 3 ounces of SINBAR® WDG per acre after transplanting but before new runner plants start to root. If strawberry transplants are allowed to develop new foliage prior to SINBAR® WDG application, the application must be followed immediately by 0.5 to 1 inch of irrigation or rainfall to wash the SINBAR® WDG off the strawberry foliage. Otherwise severe injury may result.

Apply 2 to 6 ounces of SINBAR® WDG per acre starting in late summer or early fall for control of winter annual weeds. If strawberry plants are not dormant at the time of the SINBAR® WDG application, the application must be followed immediately by 0.5 to 1 inch of irrigation or rainfall to wash the SINBAR® WDG off the strawberry foliage. Otherwise severe injury may result.

To extend weed control through harvest of the following year, apply 2 to 4 ounces SINBAR® WDG per acre just prior to mulching in the late fall.

Harvest Year

After post-harvest renovation, before new growth begins in midsummer, apply 4 to 8 ounces of SINBAR® WDG per acre.

To extend weed control through harvest of the following year, apply 4 to 8 ounces of SINBAR® WDG per acre just prior to mulching in the late fall.

ANNUAL PRODUCTION UNDER PLASTIC MULCH (Florida Only)

Make a once-per-crop application of 4 ounces of SINBAR® WDG per acre after bedding but prior to transplanting. Rainfall or irrigation is required for SINBAR® WDG activation.

USE PRECAUTIONS

Do not apply more than 8 ounces per acre per season of SINBAR® WDG unless otherwise directed.

Do not apply within 110 days of harvest.

Do not apply SINBAR® WDG to soils with less than 0.5% organic matter.

For coarse soils (sands, sandy loam) with 0.5 to 1% organic matter, use a maximum of 3 ounces per acre per single application and a maximum of 6 ounces per acre per season.

For coarse soils with less than 2% organic matter but greater than 1% organic matter, and for all medium and fine soils with less than 2% organic matter, use a maximum of 4

ounces per acre per single application and a maximum of 8 ounces per acre per season.

Avoid spray overlap, as crop injury may result.

A SINBAR® WDG treatment may reduce runner production or plant stand.

A reduction in residual weed control may occur under adverse environmental conditions such as heavy rainfall or when low rates are used on soil high in organic matter.

VARIETIES

Strawberry varieties vary in their sensitivity to SINBAR® WDG. Prior to adoption as a field practice, determine the varietal tolerance under expected field conditions to avoid the potential for widespread injury.

ROTATIONAL GUIDELINES

Alfalfa, apples, blueberries, mint, peaches, and strawberries may be planted one year after the last SINBAR® WDG application.

Do not plant any other crop within two years after application, as injury to the crop may occur.

SUGARCANE

Because sugarcane varieties vary in their resistance to herbicides, determine tolerance to SINBAR® WDG prior to adoption as field practice to prevent possible crop injury. For additional information, review the local university variety/herbicide guidelines for sugarcane. Do not use on varieties which are known to be susceptible to herbicide, such as 48-103 (Louisiana), 50-28 (Texas), 53-263 (Hawaii) or P.R. 1048 (Puerto Rico). Do not use where cane is grown on thinly covered sub-soils or rocky areas as injury to cane may result. Do not replant treated areas to any crop other than sugarcane or pineapple within 2 years after last application as injury to subsequent crops may result. Do not exceed 3 pounds SINBAR® WDG per acre per year. Do not apply within 120 days of harvest.

Louisiana--For best control of seedling johnsongrass; apply at 1 to 1½ pounds per acre in the fall after planting and before cane emerges; repeat application at same rate in the early spring before weeds emerge.

As a layby treatment immediately after last cultivation, apply 1/2 pounds per acre as a directed spray to row middles (treated area not to exceed 50% of row width). Do not apply over the top of cane as injury to the crop may result.

Texas--Apply broadcast at 1 to 1½ pounds per acre in the fall to stubble cane or to plant cane before emergence; repeat application at same rate in early spring. Use 1/3 of above broadcast rates when band-treating 1/3 of the area.

Hawaii--Make a single preemergence broadcast application of 1 to 1½ pounds per acre on plant or ratoon cane before cane emerges. Longevity of control is enhanced if application is made during the relatively dry season (March through October).

Puerto Rico--Make a single preemergence broadcast application of 1 to 2½ pounds per acre on plant cane only.

Note: Preemergence treatments (prior to sugarcane emergence) may be applied by either ground or aerial application equipment. Use a minimum spray volume of 5 gallons per acre for aerial applications.

SPRAY DRIFT MANAGEMENT

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. Avoiding spray drift is the responsibility of the applicator.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (greater than 150–200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions! See the Wind; Temperature and Humidity; and Temperature Inversions sections below.

CONTROLLING DROPLET SIZE – GENERAL TECHNIQUES

- **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.

CONTROLLING DROPLET SIZE - AIRCRAFT

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

BOOM LENGTH AND HEIGHT

- **Boom Length (aircraft)** - The boom length should not exceed 3/4 of the wing length, using shorter booms decreases drift potential. For helicopters use a boom length and position that prevents droplets from entering the rotor vortices.
- **Boom Height (aircraft)** - Application more than 10 feet above the canopy increases the potential for spray drift.
- **Boom Height (ground)** - Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. 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 variable direction and 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 GUSTY OR WINDLESS CONDITIONS.

Note: Local terrain can influence wind patterns. Every applicator should 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.

SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface 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 a surface inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift, and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

SENSITIVE AREAS

Pesticides should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

SPRAY EQUIPMENT CLEAN OUT

Thoroughly clean all traces of SINBAR® WDG from application equipment immediately after use. Flush the tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Dispose of the equipment wash water by applying it to a use-site listed on this label.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store product in original container only. Store in a cool, dry place.

PESTICIDE DISPOSAL: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. 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, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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

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KARMEX® is a registered trademark of E. I. duPont de Nemours and Company

Manufactured for:
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[EPA approval date]

CONDITIONS OF SALE – LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

The directions on this label are believed to be reliable and must be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Tessenderlo Kerley, Inc., or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. Tessenderlo Kerley, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use, subject to the factors noted above which are beyond the control of Tessenderlo Kerley, Inc. Except as warranted by this label, Tessenderlo Kerley, Inc. makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose. To the extent consistent with applicable law, the exclusive remedy against Tessenderlo Kerley, Inc. for any cause of action relating to the handling or use of this product is a claim of damage, and in no event shall damages or any other recovery of any kind against Tessenderlo Kerley, Inc. exceed the price of the product which causes the alleged loss, damage, injury, or other claim. To the extent consistent with applicable law, Tessenderlo Kerley, Inc. shall not be liable and any and all claims against Tessenderlo Kerley, Inc. are waived, for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income, whether or not based on the negligence of Tessenderlo Kerley, Inc. breach of warranty, strict liability in tort, or any other cause of action. Tessenderlo Kerley, Inc. and the seller offer this product, and the buyer and users accept it, subject to the foregoing conditions of sale and limitations of warranty, liability and remedies.