



Outlook®

Herbicide

A selective residual herbicide for use in certain agricultural crops

Active Ingredient*:

dimethenamid-P: (S)-2-chloro-N-[(1-methyl-2-methoxy)ethyl]-N-(2,4-dimethyl-thien-3-yl)-acetamide63.9%Other Ingredients**:_36.1%Total:100.0%

EPA Reg. No. 7969-156

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

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

See inside for complete First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

^{*}Contains 6.0 pounds of active ingredient per gallon

^{**} Contains petroleum distillates

| FIRST AID | | | | |
|------------------------|---|--|--|--|
| If in eyes | Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes. Call a poison control center for treatment advice. | | | |
| If swallowed | Call a poison control center or doctor immediately for treatment advice. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give any liquid to the person. 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 to 20 minutes. Call a poison control center or doctor for treatment advice. | | | |
| If inhaled | Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice. | | | |
| HOTLINE NUMBER | | | | |

HOTLINE 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 BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

Note to Physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

Precautionary Statements

Hazards to Humans and Domestic Animals WARNING.

Causes substantial but temporary eye injury. Harmful if inhaled, swallowed, or absorbed through the skin. **DO NOT** get in eyes or on clothing. Avoid contact with skin. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands 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.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear (such as a face shield)

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

Engineering Controls

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

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for **applicators and other handlers** and have such PPE immediately for use in an emergency, such as a spill or equipment breakdown.

Mixers and loaders for aerial applications must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170.240 (d)(4)] for dermal protection, and must:

- Wear personal protective equipment required in the PPE section of this labeling for applicators and other handlers
- Wear protective eyewear, if the system operates under pressure
- Either use a closed system that also meets the requirements in the WPS for inhalation protection or wear a NIOSH-approved dust-mist respirator with a TC84 cartridge
- Be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown: coveralls, chemical-resistant footwear, and dust-mist respirator, or if using a closed system cab that provides respiratory protection, a NIOSH-approved dust-mist respirator with a TC84 cartridge

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

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 washwater or rinsate.

Dimethenamid-P has properties that may result in groundwater contamination. Application in areas where soils are permeable or coarse and groundwater is near the surface could result in groundwater contamination.

Dimethenamid-P 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.

Point-source Contamination. To prevent point-source contamination, **DO NOT** mix or load this or any other pesticide product within 50 feet of wells (including abandoned wells and drainage wells), sinkholes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or dike mixing/loading areas as described below.

Mixing, loading, rinsing, or washing operations performed within 50 feet of a well are allowed only when conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be on or move across the pad. The pad must be self-contained to prevent surface water flow over or from the pad. The pad capacity must be maintained at 110% that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills, equipment or container leaks, equipment washwater, and rainwater that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Care must be taken when using this product to prevent:

- Back-siphoning into wells
- Spills
- Improper disposal of excess pesticide, spray mixes, or rinsates

Check valves or anti-siphoning devices must be used on all mixing equipment.

Movement Dissolved in Runoff or through Soil.

DO NOT apply under conditions which favor runoff. **DO NOT** apply to impervious substrates such as paved or highly compacted surfaces or frozen soils. Groundwater contamination may occur in areas where soils are permeable or coarse and groundwater is near the surface.

To minimize the possibility of groundwater contamination, carefully follow application rate as affected by soil type in the **Application Instructions** section of this label. **DO NOT** apply if all three criteria exist: coarse soils classified as sand (does not include loamy sand or sandy loam), less than 3% organic matter (as determined by soil tests, if not known), and where depth to groundwater is 30 feet or less.

Movement by Water Erosion of Treated Soil.

DO NOT apply or incorporate this product by flood or furrow irrigation. Ensure treated areas have received at least 0.5 inch of rainfall before using tailwater for subsequent irrigation of other fields.

Endangered Species Protection

This product may have effects on federally listed threatened or endangered plant species or their critical habitat. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the county or parish in which you are applying the pesticide. To determine if your county or parish has a Bulletin, and to obtain that Bulletin, consult

http://www.epa.gov/espp/, or call 1-844-447-3813 no more than 6 months before using this product. Applicators must use Bulletins that are in effect in the month in which the pesticide will be applied. New Bulletins will generally be available from the above sources 6 months before their effective dates.

To avoid adverse effects on endangered plant species, applicators must comply with the following mitigation measures when endangered plant species are known to occur in proximity of the application site:

- Aerial Application Leave a 150-foot untreated buffer between treatment area and endangered plant populations.
- Ground Application Use low-pressure nozzles
 according to the manufacturer's specifications that produce only medium-to-coarse or very coarse droplets
 AND leave a 35-foot untreated buffer between treatment area and known endangered plant populations.

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.

Unless otherwise directed in supplemental labeling, follow all applicable directions, restrictions, precautions and

Conditions of Sale and Warranty. This labeling must be in the user's possession during application.

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**.

EXCEPTION: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Shoes plus socks
- Protective eyewear (such as a face shield)

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage

DO NOT use or store near heat or open flame. Store in original container in a well-ventilated area separately from fertilizer, feed, or foodstuffs and away from other pesticides. Avoid cross-contamination with other pesticides. Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

Pesticide Disposal

Wastes resulting from this product must be disposed of on-site or at a waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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STORAGE AND DISPOSAL (continued)

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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 1/4 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.

Triple rinse containers too large to shake (capacity > 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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STORAGE AND DISPOSAL (continued)

Container Handling (continued)

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

In Case of Emergency

In case of large-scale spill of this product, call:

• CHEMTREC 1-800-424-9300

BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

Steps to take if material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing, and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

Product Information

Outlook® herbicide is a selective residual herbicide for controlling many annual grass weeds, annual broadleaf weeds, and sedge as they germinate (see Table 1).

Outlook can be used in agricultural field and row crops including bean (dry), beet (sugar), corn [field corn (grain, seed, silage), fresh sweet corn, popcorn], cotton, fallow, garlic, hops, horseradish, onions (dry bulb, green), peanut, perennial grasses grown for seed, potato, shallots (dry bulb), sorghum (grain), soybean, and winter squash.

Table 1. Weeds Controlled

| Common Name | Scientific Name | | | |
|--------------------------------------|-------------------------|--|--|--|
| Annual Grass Weeds | | | | |
| Barnyardgrass | Echinochloa crus-galli | | | |
| Bluegrass, annual | Poa annua | | | |
| Bluegrass, roughstalk | Poa trivialis | | | |
| Brome, California | Bromus carinatus | | | |
| Brome, downy | Bromus tectorum | | | |
| Crabgrass, large | Digitaria sanguinalis | | | |
| Crabgrass, smooth | Digitaria ischaemum | | | |
| Cupgrass, Southwestern | Eriochloa gracilis | | | |
| Cupgrass, woolly ¹ | Eriochloa villosa | | | |
| Fescue, rattail | Vulpia myuros | | | |
| Foxtail, giant | Setaria faberi | | | |
| Foxtail, green | Setaria viridis | | | |
| Foxtail, yellow | Setaria glauca | | | |
| Goosegrass | Eleusine indica | | | |
| Johnsongrass (seedling) ¹ | Sorghum halepense | | | |
| Millet, wild proso ¹ | Panicum miliaceum | | | |
| Panicum, fall | Panicum dichotomiflorum | | | |
| Panicum, Texas ¹ | Panicum texanum | | | |
| Red rice | Oryza sativa | | | |
| Ryegrass, Italian | Lolium multiflorum | | | |
| Sandbur ¹ | Cenchrus spp. | | | |
| Shattercane ¹ | Sorghum bicolor | | | |
| Signalgrass, broadleaf ¹ | Brachiaria platyphylla | | | |
| Witchgrass | Panicum capillare | | | |

Table 1. Weeds Controlled (continued)

| Common Name | Scientific Name | | | | |
|--|-------------------------|--|--|--|--|
| Annual Broadleaf Weeds | | | | | |
| Amaranth, Palmer | Amaranthus palmeri | | | | |
| Amaranth, Powell | Amaranthus powellii | | | | |
| Beggarweed, Florida ¹ | Desmodium tortuosum | | | | |
| Carpetweed | Mollugo verticillata | | | | |
| Chamomile, mayweed | Anthemis cotula | | | | |
| Eclipta ¹ | Eclipta alba | | | | |
| Lambsquarters, common ¹ | Chenopodium album | | | | |
| Nightshade, black ² | Solanum nigrum | | | | |
| Nightshade, cutleaf ² | Solanum triflorum | | | | |
| Nightshade, Eastern black ² | Solanum ptycanthum | | | | |
| Nightshade, hairy ² | Solanum sarrachoides | | | | |
| Pigweed, prostrate | Amaranthus blitoides | | | | |
| Pigweed, redroot | Amaranthus retroflexus | | | | |
| Pigweed, smooth | Amaranthus hybridus | | | | |
| Pigweed, tumble | Amaranthus albus | | | | |
| Purslane, common | Portulaca oleracea | | | | |
| Pusley, Florida | Richardia scabra | | | | |
| Ragweed, common ¹ | Ambrosia artemisiifolia | | | | |
| Spurge, nodding | Chamaesyce nutans | | | | |
| Spurge, spotted | Chamaesyce maculata | | | | |
| Waterhemp, common ² | Amaranthus rudis | | | | |
| Waterhemp, tall ² | Amaranthus tuberculatus | | | | |
| Sedge | | | | | |
| Flatsedge, rice | Cyperus iria | | | | |
| Nutsedge, yellow ² | Cyperus esculentus | | | | |
| | | | | | |

¹ Partial control or suppression only. To complement control, use **Outlook® herbicide** in tank mixes or sequential application with other herbicides that provide additional control of these weed species.

Mode of Action

Outlook is a root-and-shoot growth inhibitor that controls susceptible germinating seedlings before or soon after they emerge from the soil. Dimethenamid-P is a chloroacetamide herbicide belonging to the herbicide mode-of-action **Group 15** (WSSA)/**Group K** $_3$ (HRAC).

Application Instructions

Outlook provides most effective weed control when applied by ground or aerial equipment and subsequently incorporated into soil by rainfall, sprinkler irrigation, or mechanical tillage before weed seedling emergence from soil. **Outlook** can also be applied through chemigation.

Outlook may be applied as a preplant incorporated, preplant surface, preemergence, early postemergence, or layby (corn) treatment. **Outlook** may be applied using water or sprayable fluid fertilizer as the spray carrier.

Additionally, **Outlook** may be impregnated on and applied with dry bulk fertilizer. Sprayable fluid fertilizer as a carrier is not recommended for use after crop emergence. Refer to **Additives** for more information.

Application Rate

Application rates for **Outlook** when applied alone, in tank mix, or in sequential applications are given in **Table 2**. Refer to **Crop-specific Information** for additional rate information.

Table 2. Outlook Application Rate/Acre^{1,2,3}

| | Organic Matter Content | | |
|----------------|--------------------------|------------------------|--|
| Soil Texture | Less than 3% (fl ozs) | 3% or more (fl ozs) | |
| Coarse | 12 to 14 | 14 to 18 | |
| Medium Fine | 14 to 18 | 18 to 21 | |

See tank mix descriptions for the specified application rate ranges of other herbicides tank mixed with **Outlook**.

The application rates listed are intended for full-season control of targeted weeds. Reduced application rates (8 to 16 fl ozs/A of **Outlook**) may be used where partial control or reduced length of soil residual control is required, such as postemergence application, or preemergence application where cultivation or sequentially applied herbicides will be used for added control of the same targeted weed species.

Use 8 to 12 fl ozs/A of **Outlook** on coarse-texture soils.
Use 12 to 16 fl ozs/A of **Outlook** on medium-texture and fine-texture soils.

- ² For all early preplant applications, use 21 fl ozs/A of **Outlook**.
- ³ On muck soils and high organic matter soils, apply **Outlook** at 21 fl ozs/A.

Application rates of **Outlook** vary by soil texture and organic matter. Soil texture groups used in this label are **coarse** (sand, loamy sand, sandy loam), **medium** (silt, silt loam, loam, sandy clay loam), and **fine** (sandy clay, silty clay, silty clay loam, clay loam, and clay).

DO NOT apply on coarse soils classified as sand (does not include loamy sand or sandy loam) with less than 3% organic matter (as determined by soil tests, if not known), and where depth to groundwater is 30 feet or less. When use rates are expressed in ranges, use the lower rate for more coarsely textured soils lower in organic matter; use the higher rate for more finely textured soils high in organic matter.

Preplant Incorporated Application

Apply **Outlook** and incorporate into the upper (1 to 2 inches) soil surface up to 2 weeks before planting. Use a harrow, rolling cultivator, finishing disk, or other implement capable of giving uniform shallow incorporation. Avoid deeper incorporation or reduced weed control or crop injury may result.

Preplant Surface Application

For use in minimum tillage or no-till production systems, apply **Outlook** alone or in tank mixes up to 45 days before planting. When making early preplant application (15 to 45 days before planting), use the highest rate specified for the specific soil type. Early preplant applications are not for

² For best control of these species, use the highest rate specified by soil type. If dry conditions exist near application or excessive rainfall occurs early in season, a postemergence herbicide or cultivation may be required to help control these weeds.

use on coarse-texture soils or in areas where average annual rainfall (or rainfall plus irrigation) typically exceeds 40 inches. Early preplant applications may be applied as part of a split application program where the second application is made after planting (use 2/3 of **Outlook® herbicide** rate early followed by 1/3 of rate after planting). A split application is recommended when the initial application is made more than 30 days before planting. Tank mixes with postemergence herbicides registered for use on the specific crop such as glyphosate, **Touchdown® herbicide** (glyphosate), or **Gramoxone Inteon® herbicide** (paraquat) must be used when weeds are present at the time of application.

Preemergence Surface Application

Broadcast treatment uniformly to the soil surface after planting and before crop emergence. Rainfall, sprinkler irrigation, or shallow mechanical incorporation after application is required to move this product into the upper soil surface where weed seeds germinate. If adequate rainfall or irrigation does not occur and weed seedling emergence begins, a shallow cultivation or rotary hoeing will improve performance.

Early Postemergence Application

Outlook must be applied before weed seedling emergence or in a tank mix with products registered for use on the specific crop on this label that control the emerged weeds. Refer to **Crop-specific Information** for specific postemergence applications by crop.

Layby Application

Use **Outlook** in field corn, seed corn, and popcorn. See **Crop-specific Information - Corn** for more details on layby application.

Split Application

Outlook may be used in split application programs where applications are made as part of the methods described above. If applications are less than 2 weeks apart, the total Outlook rate used must not exceed the maximum rate given for each specific soil type. If applications are 2 weeks or more apart, a total Outlook application rate of up to 21 fl ozs/A per year may be used on any soil type in all labeled crops except corn, cotton, sugar beet, and soybean. See Crop-specific Information section for maximum seasonal application rate in corn, cotton, sugar beet, and soybean.

Fall Application

For use only in the following states:

Iowa, Minnesota, North Dakota, South Dakota, Wisconsin, north of Highway 136 in Illinois, and north of Highway 91 in Nebraska.

Outlook may be used in fall applications to control weeds in minimum tillage or no-till corn or soybean production systems planted the following spring. Apply up to 21 fl ozs/A of **Outlook** to medium-texture and fine-texture soils with greater than 2.5% organic matter.

Fall applications must be made after October 1. Apply **Outlook** in the fall after crop harvest when soil temperature

at the 4-inch depth is sustained at less than 55° F and before the ground freezes.

Tillage operations may be conducted before or after applying **Outlook**. If following an application, tillage should be no more than 2 to 3 inches deep to uniformly incorporate the herbicide into the upper soil surface. If a sequential application program (fall application followed by spring application of **Outlook**) is used, the maximum combined rate of **Outlook** that may be applied is 21 fl ozs/A per crop season.

Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-related and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. Where states have more stringent regulations, they must be observed. The applicator should be familiar with and take into account the following drift reduction advisory information.

Controlling Droplet Size

The most effective way to reduce drift potential is to apply large 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 (see **Wind**;

Temperature and Humidity; and **Temperature Inversion**).

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure DO NOT exceed the nozzle manufacturer's specified pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice.
 Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce the largest droplets and the lowest drift.
 DO NOT use nozzles producing a mist droplet spray.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Making applications at the lowest possible height (aircraft, ground-driven spray boom) that is safe and practical

reduces exposure of droplets to evaporation and wind. Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind

Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Avoid application below 3 mph because of variable wind direction and high inversion potential.

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 low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversion

Applications should not occur during temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud that can move in unpredictable directions because of the light, variable winds common during inversions. Temperature inversions are characterized by increasing temperatures 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.

Sensitive Areas

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or nontarget crops or plants) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

Wind Erosion

Avoid treating powdery, dry, or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Aerial Application Method and Equipment

Water Volume. Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Managing Spray Drift from Aerial Application

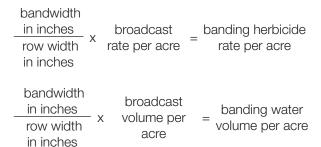
Applicators must follow these requirements to avoid offtarget drift movement:

- **Boom Length** The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzle Orientation Nozzles must always point backward parallel with the airstream and never be pointed downward more than 45 degrees.
- **Application Height** Without compromising aircraft safety, application should be made at a height of 10 feet or less above the crop canopy or tallest plants.

Applicators must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Ground Application (Banding)

When applying **Outlook® herbicide** by banding, calculate the amount of herbicide and water volume per acre needed using the following formula:



Ground Application (Broadcast)

Water Volume. Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume for accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Cleaning Spray Equipment

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and then triple rinsing the equipment before and after applying this product.

Ground Application (Dry Bulk Fertilizer)

Outlook® herbicide may be impregnated or coated onto dry bulk granular fertilizer carriers for preplant surface, preplant incorporated, or preemergence application. Impregnation or coating may be conducted by the in-plant bulk system or the on-board system. When impregnated onto some dry fertilizer blends, **Outlook** may exhibit a strong odor. Perform the mixing operation in a well-ventilated area.

Outlook may also be applied in herbicide tank mixes where the tank mix companion product is also registered for these application systems. Individuals or agents selling **Outlook** in these application systems are responsible for following all state and local regulations regarding fertilizer and herbicide blending.

Addition of a drying agent may be necessary if the fertilizer and herbicide blend is too wet for uniform application because of high humidity, high urea concentration, or low fertilizer use rate. Slowly add the drying agent to the blend until a flowable mixture is obtained. Drying agents are not recommended for use with on-board impregnation systems.

Under some conditions, fertilizer impregnated with **Outlook** may clog air tubes or deflector plates on pneumatic application systems. Mineral oil may be added to **Outlook** before blending with fertilizer to reduce plugging. **DO NOT** use drying agents when mineral oil is used. To avoid separation of **Outlook** and mineral oil mixes in cold temperatures, either keep mixture heated or agitated before blending with fertilizer. Mineral oil may be used at in-plant blending stations or on-board injection systems.

Apply 200 to 750 pounds of the fertilizer and herbicide blend per acre. Application must be made uniformly to the soil to prevent possible crop injury and for satisfactory weed control. Impregnated fertilizer spread at 1/2 rate and overlapped to obtain a full rate will offer a more uniform distribution. For granular fertilizer application to protect small birds and mammals, soil incorporation of the granules is required. A shallow (1 to 2 inches) incorporation is desirable for improved weed control. Deeper incorporation may result in unsatisfactory weed control.

Use the following formula to calculate the herbicide rate when using dry bulk fertilizer applications:

$$\frac{\text{fl ozs/A}}{\text{fertilizer (lbs/A)}} \times 2,000 = \frac{\text{fluid ounces}}{\text{per ton of fertilizer}}$$

Incompatible Mixtures

DO NOT impregnate **Outlook** or **Outlook** mixes on ammonium nitrate, potassium nitrate, or sodium nitrate fertilizers or fertilizer blends. Single superphosphate (0-20-0) and triple superphosphate (0-46-0) may be impregnated only with **Outlook** alone.

Chemigation Application via Sprinkler Irrigation Systems

Outlook may be applied as a chemigation treatment through sprinkler irrigation systems. Apply this product **ONLY** through a sprinkler irrigation system of the following type: center pivot, end tow, hand move, lateral move, side (wheel) roll, or solid set. **DO NOT apply this product through any other type of sprinkler irrigation system.**

Application may be made alone or in tank mixtures with other herbicides on this label registered for use in specified sprinkler irrigation systems. Application must be made within specific crop stage timings and product use rates given in the container label **Directions For Use**.

Uniform distribution of **Outlook**-treated irrigation water is the sole responsibility of the applicator and is required to avoid crop injury, lack of herbicide effectiveness, or illegal pesticide residue in the crop. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers, or other experts.

Proper calibration is the responsibility of the applicator. The system must be properly calibrated (with water only) to ensure the amount of **Outlook** applied corresponds to the specified rate. Apply **Outlook** in volume minimums of 0.33 to 0.67 inch of water using the lower volume for coarse-texture soils and the higher volume for fine-texture soils. Application made in high volumes of water (more than 1 inch) may result in reduced weed control.

Meter herbicide dilution into irrigation water through the entire time of water application for center pivot and lateral move sprinkler systems. For solid-set and hand-move sprinkler irrigation systems, apply **Outlook** through the system at the beginning of the set; then follow with additional water to reach volume minimums as listed by soil type. To increase calibration accuracy of injection metering equipment, dilute **Outlook** in a minimum of 3 parts water to 1 part **Outlook**. Maintain agitation in injection nurse tanks to keep a uniform herbicide suspension during application.

Special instructions for chemigation:

- 1. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.
- DO NOT connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 3. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- 4. Recirculate and/or contain tail water (runoff water) from chemigation that contains **Outlook** in the field in a cistern or holding reservoir from the initial application and/or used only on adjacent, approved crops for which **Outlook** is registered for this type of application.

- 5. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. It must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 6. The sprinkler chemigation system must contain a functional check valve, vacuum-relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow. In addition, systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. The sprinkler chemigation system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 8. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Chemigation systems connected to public water systems:

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- All chemigation systems connected to public water systems must also follow restrictions listed in the preceding section.

Additives

Spray adjuvants have little or no influence on **Outlook® herbicide** performance when application is made before weed emergence. However, several tank mixes with **Outlook** require adjuvants to improve burndown of emerged weeds. Therefore, surfactants and/or low rate fertilizer [28%, 30%, or 32% urea ammonium nitrate (UAN) or ammonium sulfate (AMS)], or crop oil concentrate (COC) may be used with **Outlook** tank mixes applied preplant, preemergence, or early postemergence to the crop.

Follow the adjuvant directions on the tank mix partner's label.

When an adjuvant (or a specific adjuvant product, such as a drift control agent) is to be used with this product, BASF recommends the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant for use on food crops.

Oil Concentrate

A crop oil concentrate must contain either a petroleum-oil or vegetable-oil base and must meet all of the following criteria:

- Nonphytotoxic
- Contain only EPA-exempt ingredients
- Provide good mixing quality in the jar test
- Successful in local experience

The exact composition of suitable products will vary; however, vegetable-oil and petroleum-oil concentrates should contain emulsifiers to provide good mixing quality.

Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For additional information, see **Compatibility Test for Mix Components**.

The use of adjuvants containing penetrants, such as petroleum-based oils, after corn emergence may cause crop injury.

Nitrogen Source

Urea Ammonium Nitrate (UAN). Use 1 to 2 gallons of UAN (28%, 30%, or 32% nitrogen solution) per acre. **DO NOT** use brass or aluminum nozzles when spraying UAN.

Ammonium Sulfate (AMS). AMS at 8 to 17 pounds per 100 gallons of spray solution may be substituted for UAN. Use high-quality AMS (spray grade) to avoid nozzle plugging. Other sources of nitrogen are not as effective as those mentioned. BASF does not recommend applying AMS if applied in less than 10 gallons per acre because of potential problems with precipitation in reduced volumes. Use AMS only if it has been demonstrated to be successful in local experience.

Nonionic Surfactant (NIS)

The standard label recommendation is 1 to 2 quarts of an 80% active (NIS) per 100 gallons of water. For certain weeds, a higher spray surfactant rate is recommended.

Tank Mixing Information

Outlook® herbicide may be tank mixed with one or more herbicide products according to the specific tank mixing instructions in this label and respective product labels if the product labels do not prohibit such mixing. The most restrictive labeling applies to tank mixes. Refer to Cropspecific Information to determine which tank mix products can be applied to specific crops. Physical incompatibility, reduced weed control, or crop injury may result from mixing Outlook with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. Local agricultural authorities may be a source of information when using other than BASF-recommended tank mixes.

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

Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test.

For 20 gallons/A spray volume, use 3.3 cups (800 mL) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of label rate per acre.

Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, or fine particles that precipitate to the bottom, or thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, **DO NOT** mix the ingredients in the same tank.

Mixing Order

Maintain constant agitation throughout mixing and application.

- 1. **Water** Begin by agitating a thoroughly clean sprayer tank 3/4 full of clean water.
- 2. **Inductor** If an inductor is used, rinse it thoroughly after each component has been added.
- Products in PVA bags Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.

- 4. Water-dispersible products (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
- 5. Water-soluble products
- 6. **Emulsifiable concentrates** (such as **Outlook** or oil concentrate when applicable)
- 7. **Water-soluble additives** (such as AMS or UAN when applicable)
- 8. Remaining quantity of water

Use Restrictions

- Maximum seasonal application rate DO NOT apply more than a total of 0.98 pound of active ingredient dimethenamid-P (21 fl ozs of Outlook) per acre per season in all labeled crops except corn, sugar beet, and soybean. See Crop-specific Information section for maximum seasonal application rate in corn, sugar beet, and soybean.
- Preharvest Interval (PHI) Refer to Crop-specific Information for crop-specific preharvest intervals and feeding and grazing restrictions.
- Outlook is not for sale, distribution, or use in Nassau and Suffolk counties in New York State.
- DO NOT contaminate irrigation ditches or water used for domestic purposes.

Use Precautions

• Emergency replanting intervals

- If any labeled crop treated with Outlook is lost to adverse weather or for other reasons, the area treated may be replanted to any of the labeled crops immediately, unless specified otherwise in the Crop-specific Information section of this label.
- If the original Outlook treatment was broadcast,
 DO NOT make a second application of Outlook.
- If the original application was banded and the second crop is planted in the row middles, a second band application may be applied.
- Stress Application to crops under stress because of lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures may result in crop injury.

Crop Rotation Intervals

Refer to **Table 3** to determine the proper interval between **Outlook** application and the planting of rotational crops. Determine the rotational crop interval for tank mix products and use the most restrictive interval of all products applied.

Table 3. Rotational Crop Planting Intervals by Outlook® herbicide Application Rate

| | Outlook Use Rate (fl ozs/A) | |
|-------------------------------|---|----------|
| Crop | < 16 | 16 to 21 |
| | Rotational Crop Interval (months after application) | |
| Alfalfa | 4 | 6 |
| Canola (rapeseed) | 4 | 6 |
| Cotton | 4 | 4 |
| Peas (dry field, edible) | 4 | 4 |
| Small grains | 4 | 4 |
| Cover crops (winter, spring)* | 4 | 6 |
| Other crops | 6 | 9 |

^{*}Cover crops (winter, spring) may be planted after application of **Outlook**, either inter-seeded into the current crop before harvest or after harvest of the current crop. Depending on the sensitivity of the sown cover crop to Outlook, stand establishment may be reduced. If cover crops are sown for conservation purposes prior to a 4-month interval, **DO NOT** harvest as a food or feed crop, or allow livestock to graze cover crops.

Crop-specific Information

Beet, Sugar

Outlook may be used as part of a weed management program in sugar beet.

Normal Timing

Apply **Outlook** after sugar beets have reached the 2-leaf stage (at least 2 fully expanded true leaves) but before sugar beets have exceeded the 8-leaf stage.

Application at 2-leaf stage or later may result in temporary leaf injury. Application made from preemergence up through cotyledon stage of beets may result in significant crop injury including possible stand reduction.

Extended Timing

Apply **Outlook** after sugar beets have reached the 9-leaf stage but before sugar beets have exceeded the 12-leaf stage.

The maximum **Outlook** application rates in a single application are 12 to 18 flozs on coarse-texture soils and 14 to 21 fl ozs on medium-texture or fine-texture soils, but are also influenced by soil organic matter content. Refer to Table 2 for specific maximum application rates of Outlook depending on soil type and organic matter content.

Outlook may be applied in a single application or two split applications. If Outlook is applied only as a single application, **DO NOT** exceed 21 fl ozs/A. If **Outlook** is applied in two split applications, maintain a minimum of 14 days between split applications. **DO NOT** exceed a seasonal total of 24 fl ozs/A of **Outlook**. If two applications are made, apply no more than 12 to 16 fl ozs/A during the first application (applied during Normal Timing: 2 true-leaf to 8 true-leaf stage); then the remainder (8 to 12 fl ozs/A) of

the seasonal maximum rate during the second application (applied during **Extended Timing:** 9-leaf to 12-leaf trueleaf stage).

Crop-specific Restrictions

- Harvest only mature beets and tops.
- **Preharvest Interval** (PHI) for Normal Timing application:
- Preharvest Interval (PHI) for Extended Timing application: 95 days

Sugar Beet Tank Mixes

Application may be made alone or in tank mixtures with other registered herbicides on sugar beet. Outlook may be tank mixed with the following herbicides:

- Poast® herbicide
- Eptam® herbicide
- trifluralin
- Progress[®] herbicide
- Assure® herbicide
- Select® herbicide
- Betamix® herbicide Stinger® herbicide
- Betanex® herbicide
 UpBeet® herbicide

Crop injury is possible when tank mixing these herbicides as well as any adjuvants such as methylated seed oils with Outlook. Read and follow the applicable Crop-specific Restrictions and Directions For Use on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

Crop-specific Recropping and Rotational Cropping

If Outlook has been applied to sugar beets and crop failure occurs because of adverse weather or other reasons, replanting (recropping) sugar beets is not recommended. If replanting a crop is necessary, plant any crop (e.g. corn, dry bean, grain sorghum, soybean) where soil application of **Outlook** is registered.

Field Corn (grain, seed, silage), Fresh Sweet Corn, Popcorn

Use not permitted in California on sweet corn.

Outlook may be applied preplant surface, preplant incorporated, preemergence, or postemergence to corn up to 12-inches tall. Corn in this label refers to field corn grown for grain, seed, or silage; fresh sweet corn; and popcorn. Before applying to seed corn, sweet corn, or popcorn, verify with your local seed company (supplier) the **Outlook** selectivity on your inbred line or hybrid to avoid potential injury.

Outlook may also be applied at layby to field corn, seed corn, and popcorn. Layby applications are made when corn is greater than 12-inches tall but before it is greater than 36-inches tall. For layby application for control of lateseason germinating weeds, apply before weeds emerge from soil or in combination with a herbicide(s) and/or cultivation that controls emerged weeds. For best performance, direct application beneath the corn canopy.

Outlook® herbicide may be applied in a single application or two split applications.

The maximum **Outlook** application rates in a single application are 12 to 18 fl ozs/A on coarse-texture soils and 14 to 21 fl ozs/A on medium-texture or fine-texture soils, but are also influenced by soil organic matter content. Refer to **Table 2** for specific maximum application rates of **Outlook** depending on soil type and organic matter content.

If **Outlook** is applied in two split applications, maintain a minimum of 14 days between split applications, and **DO NOT** exceed a seasonal total of 24 fl ozs/A of **Outlook**. If two applications are made, apply no more than 8 to 16 fl ozs/A during the first application (applied preplant, preemergence, or postemergence); then apply the remainder (8 to 16 fl ozs/A) of the seasonal maximum rate during the second application (postemergence, layby).

Crop-specific Restrictions

- Corn may be grazed or fed to livestock 40 days or more after application of **Outlook**.
- Preharvest Interval (PHI) for sweet corn ears: 50 days
- DO NOT make layby application of Outlook to sweet corn.

Corn Tank Mixes

Outlook may be tank mixed or applied sequentially with one or more of, but not limited to, the following herbicide products:

- Armezon® herbicide
- Clarity® herbicide
- Lightning® herbicide¹
- Prowl® H2O herbicide
- Sharpen® powered by Kixor® herbicide
- Status® herbicide²
- Verdict® powered by Kixor® herbicide
- Zidua® herbicide

- 2,4-D*
- atrazine
- glyphosate3
- simazine
- Balance[®] Pro herbicide
- Callisto[®] herbicide
- Gramoxone Inteon[®] herbicide
- Touchdown® herbicide

your local seed company (supplier) the selectivity of **Outlook** on your variety to avoid potential injury.

Use of **Outlook** may result in temporary growth suppression in cotton if extreme conditions of high rainfall and extended periods of water-saturated soil occur during early seedling development.

Application Rate and Timing

Outlook may be applied in a single application or in sequential applications (see **Sequential Applications** section).

Early Postemergence Application

Apply **Outlook** at up to 21 fl ozs/A as a broadcast spray to cotton from first true-leaf stage to mid-bloom stage (i.e. two weeks after R1 initial bloom stage). **Outlook** must be applied before weed seedling emergence or in a tank mix with products registered for use on cotton that control the emerged weeds. For effective residual activity, rainfall, sprinkler irrigation, or shallow mechanical incorporation after application is required to move this product into the upper soil surface where weed seeds germinate.

Outlook will provide residual control of weeds germinating after application. Control weeds that are emerged at time of application with cultivation, or a tank mix or sequential application of another herbicide labeled for postemergence weed control in cotton. **Outlook** application to emerged cotton may result in temporary leaf burn, spotting, and/or stunting, but a reduction in cotton yield is not expected.

Adjuvants may be applied with **Outlook** when making early postemergence application.

Sequential Applications

Outlook may be applied as split applications when the initial and sequential applications are made early postemergence. If a split postemergence application program of **Outlook** is used, **DO NOT** apply more than a maximum cumulative amount of 21 fl ozs/A of **Outlook** in a cropping season. Separate sequential applications by at least 14 days.

Crop-specific Restrictions

- **DO NOT** apply preplant incorporated, preplant surface, or preemergence in cotton.
- **DO NOT** apply more than 21 fl ozs/A of **Outlook** from postemergence applications.
- There is no required (preharvest) interval between a postemergence application of **Outlook** and the harvest of cotton.
- Cotton gin byproducts may be fed to livestock.

Cotton Tank Mixes

Outlook may be tank mixed or applied sequentially in cotton with, but not limited to, the following herbicide product according to the specific tank mixing instructions in this label and the respective mixture product label:

- Prowl H2O
- Zidua

- ¹ Use only in **Clearfield®** (imidazolinone-tolerant) corn hybrids.
- ² Tank mixes of **Outlook** and **Status** are not recommended.
- Includes postemergence tank mixes on Roundup Ready® (glyphosate-tolerant) corn hybrids
- *For preplant or preemergence applications only, 2,4-D is not recommended for use within 7 days before or 3 days after planting. For preemergence application, ensure seed furrows are closed and corn seed is covered by a minimum of 1.5 inches of soil to reduce the chance of injury.

NOTE: Refer to the tank mix product labels to confirm the respective tank mix products are registered for use on specific corn types. Not all corn products are registered for use on seed corn, popcorn, and sweet corn.

Cotton

Use not permitted in California on cotton.

Outlook may be applied postemergence to cotton for residual weed control. Before applying to cotton, verify with

Tank mixing **Outlook® herbicide** with other emulsifiable concentrate (EC) formulated products may enhance potential for cotton injury response.

Dry Bean

Use not permitted in California on dry bean.

Outlook may be applied preplant surface, preplant incorporated, preemergence, or early postemergence (first to third trifoliate stage) to dry bean classes (black turtle soup, cranberry, dry lima, great northern, navy, pink, pinto, red kidney, red Mexican, and small whites). **Outlook** may only be applied preplant surface or preemergence to garbanzo beans and lentils. **Outlook** is not registered for use in succulent beans, succulent bean varieties grown for seed, or cowpeas.

Before applying **Outlook** to dry beans, verify with your local seed company (supplier) the selectivity of **Outlook** on your specific dry bean class and variety to help avoid potential injury to sensitive classes or varieties.

If extreme conditions of high rainfall and extended periods of water-saturated soil occur during dry edible bean germination or early seedling development, **Outlook** use may result in temporary growth suppression. This suppression will not reduce dry edible bean yield. **Outlook** use postemergence may occasionally result in some temporary spotting or browning of dry bean leaves and stunting, but a reduction in dry bean yield is unexpected. Postemergence tank mixtures with other crop protection products or adjuvants may significantly enhance this effect. Depending on growing conditions, recovery from this injury begins immediately but may take several weeks for dry beans to recover completely.

The maximum **Outlook** application rates in a single application are 12 to 18 fl ozs/A on coarse-texture soils and 14 to 21 fl ozs/A on medium-texture or fine-texture soils, but are also influenced by soil organic matter content. Refer to **Table 2** for specific maximum **Outlook** application rates depending on soil type and organic matter content.

Outlook may be applied in a single application of up to 21 fl ozs/A or used in split applications of 10 to 14 fl ozs/A of Outlook applied initially, and the remaining 7 to 11 fl ozs/A of Outlook in the sequential application.

DO NOT exceed a total of 21 fl ozs/A of Outlook per season.

Additional restrictions specific to dry beans are to use a maximum of 12 fl ozs/A of **Outlook** on coarse soils with organic matter less than 1.5% for soil applications made before crop emergence.

Crop-specific Restrictions

 DO NOT apply Outlook early postemergence to dry beans grown in the states of Washington and Oregon (EXCEPTION: Malheur county).

- DO NOT apply Outlook early postemergence by chemigation to dry beans grown in Idaho or Malheur County, Oregon.
- Preharvest Interval (PHI): 70 days

Dry Bean Tank Mixes

Outlook may be tank mixed or applied sequentially in dry bean crops with one or more of, but not limited to, the following herbicide products according to the specific tank mixing instructions in this label and respective product labels:

- Basagran® herbicide
- Poast® herbicide
- Prowl® H2O herbicide
- Pursuit® herbicide
- glyphosate
- Gramoxone Inteon® herbicide

The following herbicide products may only be applied sequentially with **Outlook**:

- Dual II Magnum® herbicide
- Dual Magnum® herbicide

Dry Bulb Onions, Garlic, Dry Bulb Shallots

Outlook may be used as part of a weed management program in dry bulb onions, garlic, and dry bulb shallots grown in muck soils, high organic soils, and in mineral soils.

Apply **Outlook** after dry bulb onions, garlic, and dry bulb shallots have reached the 2 true-leaf stage until a minimum of 30 days before harvest. Application made before 2 true-leaf stage may result in significant crop injury including possible stand reduction. If applications are made to transplanted dry bulb onions, garlic, and dry bulb shallots, **DO NOT** apply until transplants are in the ground and soil has settled around transplants with several days to recover.

Outlook may be applied in a single application of up to 21 fl ozs/A or used in split applications of 10 to 14 fl ozs/A of **Outlook** applied initially, and the remaining 7 to 11 fl ozs/A of **Outlook** in the sequential application. If split applications are made, maintain a minimum of 14 days between sequential applications. **DO NOT** apply more than a total of 21 fl ozs/A of **Outlook** in a single growing season.

A total maximum combined rate of 21 fl ozs/A of **Outlook** may be applied on any soil type in a single growing season.

The maximum **Outlook** application rates in a single application are 12 to 18 fl ozs/A on coarse-texture soils and 14 to 21 fl ozs/A on medium-texture or fine-texture soils, but are also influenced by soil organic matter content. Refer to **Table 2** for specific maximum **Outlook** application rates depending on soil type and organic matter content.

Crop-specific Restrictions

• Preharvest Interval (PHI): 30 days

Dry Bulb Onions, Garlic, Dry Bulb Shallots Tank Mixes

Outlook® herbicide applications may be made before, in tank mixture, or after use of one or more of the following registered herbicides for postemergence use in dry bulb onions, garlic, and dry bulb shallots:

- Poast® herbicide
- Goal® herbicide1
- Prowl® H2O herbicide
- Select® herbicide
- Fusilade® DX herbicide¹

Crop injury is possible when tank mixing these herbicides as well as any adjuvants such as methylated seed oils with **Outlook**. Read and follow the applicable **Crop-specific Restrictions** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

Crop-specific Recropping and Rotational Cropping

If **Outlook** has been applied to dry bulb onions, garlic, and dry bulb shallots and crop failure occurs because of adverse weather or other reasons, replanting (recropping) dry bulb onions, garlic, and dry bulb shallots is not recommended. If replanting a crop is necessary, plant any crop (e.g. corn, dry bean, grain sorghum, soybean) where soil application of **Outlook** is registered.

Fallow

Outlook may be used as a residual treatment to control listed weeds before they germinate at the beginning of the fallow period. Specific rotational crop planting intervals must be observed between an application of **Outlook** and planting of the following crops (see **Crop rotation restriction** in **Use Restrictions** section).

Application Rate and Timing

Apply **Outlook** as a broadcast spray at up to 21 fl ozs/A before weeds emerge for best product performance.

Split applications may be made with a minimum of 30 days between applications; but **DO NOT** exceed the maximum seasonal cumulative amount of 21 fl ozs/A of **Outlook** per cropping season.

Green Onions (Leeks, Spring onions or Scallions, Japanese bunching onions, Green shallots or Eschalots)

Use not permitted in California on green onions.

Outlook may be used as part of a weed management program in green onions grown in muck soils, high organic soils, and mineral soils. **Outlook** may only be applied by ground (broadcast) application.

Apply **Outlook** after green onions have reached the 2 true-leaf stage until a minimum of 30 days before harvest.

Application made before 2 true-leaf stage may result in significant crop injury including possible stand reduction. If applications are made to transplanted green onions, **DO NOT** apply until transplants are in the ground and soil has settled around transplants with several days to recover.

Outlook may be applied in a single application of up to 21 fl ozs/A or used in split applications of 10 to 14 fl ozs/A of **Outlook** applied initially, and the remaining 7 to 11 fl ozs/A of **Outlook** in the sequential application. If split applications are made, maintain a minimum of 14 days between sequential applications. **DO NOT** apply more than a total of 21 fl ozs/A of **Outlook** in a single growing season.

Crop-specific Restrictions

• Preharvest Interval (PHI): 30 days

Green Onion Tank Mixes

Outlook application may be made before, in tank mixture, or after use of registered herbicides for postemergence use in green onions.

Crop injury is possible when tank mixing herbicides as well as any adjuvants such as methylated seed oils with **Outlook**. Read and follow the applicable **Crop-specific Restrictions** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

Crop-specific Recropping and Rotational Cropping

If **Outlook** has been applied to green onions and crop failure occurs because of adverse weather or other reasons, replanting (recropping) green onions is not recommended. If replanting a crop is necessary, plant any crop (e.g. corn, dry bean, grain sorghum, soybean) where soil application of **Outlook** is registered.

Hops

Use not permitted in California on hops.

Outlook may be used as part of a weed management program in baby (first year planting) and established hops.

Outlook may only be applied by ground (banded)

application (including postemergence-directed). Contact with hop foliage or cones by spray mixture or drift may cause injury. Apply Outlook preemergence to weeds when hops are in the dormant or early vegetative stages of growth.

Outlook may only be applied in single application.

Outlook has not been tested on hops grown in all soil textures. Refer to **Table 2** for soil texture group descriptions and appropriate application rates. BASF recommends testing **Outlook** on a small portion of the target crop to confirm safety in the local soil type.

¹ Not labeled for use in shallots.

Depending on application timing, **Outlook® herbicide** may negatively impact growth of cover crops planted in the fall after harvest.

Crop-specific Restrictions

- DO NOT apply to hops by air or through any type of irrigation system.
- DO NOT apply more than 21 fl ozs/A of Outlook per season.
- Preharvest Interval (PHI): 60 days

Tank Mixes

Tank mixes with other herbicides, fungicides, insecticides, and fertilizers are not recommended when using this product in hops.

Peanut

Use not permitted in California on peanut.

Outlook may be applied preplant surface, preplant incorporated, preemergence, or postemergence (up to 80 days before harvest) alone or in tank mix combination. Use higher rates (16 to 21 fl ozs/A of **Outlook**) for improved control or suppression of difficult weeds like yellow nutsedge, Florida beggarweed, eclipta, common ragweed, and other broadleaf species.

Outlook maximum application rates in a single application are 12 to 18 fl ozs/A on coarse-texture soils and 14 to 21 fl ozs/A on medium-texture or fine-texture soils, but are also influenced by soil organic matter content. Refer to **Table 2** for specific maximum application rates of **Outlook** depending on soil type and organic matter content.

Outlook may be applied in a single application of up to 21 fl ozs/A or used in split applications of 10 to 14 fl ozs/A of Outlook applied initially, and the remaining 7 to 11 fl ozs/A of Outlook in the sequential application.

DO NOT apply more than 21 fl ozs/A of Outlook per season.

Crop-specific Restrictions

 Peanut hay or straw may be grazed or fed to livestock 80 days or more after application of **Outlook**.

Peanut Tank Mixes

Outlook may be tank mixed or applied sequentially in peanut with one or more of, but not limited to, the following herbicide products according to the specific tank mixing instructions in this label and respective product labels.

- Basagran® herbicide
- Cadre® herbicide
- Poast® herbicide
- Prowl® H2O herbicide
- Pursuit® herbicide
- 2,4-DB
- trifluralin

- Classic® herbicide
- Dual Magnum[®] herbicide
- Storm® herbicide
- Ultra Blazer® herbicide
- Zidua® herbicide

Perennial Grass grown for Seed

For use on perennial grass grown for seed only in states west of the Mississippi River

Outlook may be used as part of a weed management program in established stands of cool-season and warm-season perennial grass grown for seed. Grass seed crops must have been established for at least one year or had at least one seed crop harvested before **Outlook** use.

The grass seed screenings remaining after processing and grass straw remaining after seed harvest may be grazed by or fed to livestock.

Outlook applied as directed will provide preemergence control or suppression of volunteer seedlings from previous grass seed crops in addition to many annual grass weeds, annual broadleaf weeds, and sedge listed in **Table 1**.

In cool-season perennial grass, apply 14 to 21 fl ozs/A of **Outlook** to postharvest grass during regrowth in the fall or spring before emergence of targeted weeds. **Outlook** may be applied in a sequential use program with other herbicides that control emerged weeds. Application to perennial ryegrass and fine fescue stands under stress may cause crop injury.

In warm-season perennial grass, apply 14 to 21 fl ozs/A of **Outlook** to postharvest grass during the fall, or during winter dormancy, or after the first seed harvest/cutting. **DO NOT** apply to warm-season perennial grass after greenup in the spring before the first seed harvest/cutting. **Outlook** may be applied in a sequential use program with other herbicides that control emerged weeds.

In both cool-season and warm-season perennial grass, use the higher rate in the rate range where more dense infestations of targeted annual grass weeds, annual broadleaf weeds, or sedge are expected. Grass straw from the previous harvest must be removed, burned, or evenly spread before **Outlook** application or reduced weed control may result.

For effective control or suppression of annual grass weeds, annual broadleaf weeds, sedge, or volunteer seedlings from previous grass seed crops, this product must be moved into the upper soil surface where weed seeds germinate by rainfall or irrigation before weed emergence. Application made in periods of cold temperature that temporarily limit normal crop growth or in extended cold temperature periods that initiate winter dormancy in grass crops may result in crop injury.

Outlook may be tank mixed with Prowl H2O or with other herbicides labeled for use in perennial grass grown for seed. BASF recommends testing Outlook tank mixes on a small portion of the target crop to determine if damage is likely to occur. Physical incompatibility, reduced weed control, or crop injury may result from mixing Outlook with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers.

Subsequent application of postemergence herbicides may

cause crop injury. Consult with your local BASF dealer regarding local tank mix options.

Crop-specific Restrictions

- DO NOT apply a total of more than 21 fl ozs/A of Outlook® herbicide per growing season.
- From treated fields of cool-season perennial grass, forage and hay may be grazed by or fed to livestock 60 days after application.
- From treated fields of warm-season perennial grass, forage and hay may be grazed by or fed to livestock 30 days after application.

Potato and Horseradish

Use not permitted on horseradish in California.

Outlook may be used as part of a weed management program in horseradish and potato.

In potato, apply **Outlook** preemergence (after planting or after drag-off). In horseradish, apply **Outlook** postemergence from the 2-leaf stage to the 8-leaf stage of plant development. **Outlook** may only be applied in a single application in horseradish and potato.

In cold and wet growing conditions, **Outlook** application may result in delayed emergence or early season stunting of horseradish and potato.

Outlook maximum application rates in a single application are 12 to 18 fl ozs/A on coarse-texture soils and 14 to 21 fl ozs/A on medium-texture or fine-texture soils, but are also influenced by soil organic matter content. Refer to Table 2 for specific maximum application rates of Outlook depending on soil type and organic matter content.

DO NOT exceed the specified rate by soil type in a single application.

Crop-specific Restrictions

• Preharvest Interval (PHI): 40 days

Potato Tank Mixes

Outlook application may be made before, in tank mixture, or after the use of one or more of, but not limited to, the following registered herbicides for use in potatoes:

- Poast® herbicide
- Prowl® H2O herbicide
- glyphosate
- metribuzin
- trifluralin

- Eptam® 7E herbicide
- Gramoxone Inteon® herbicide
- Lorox® herbicide
- Matrix® herbicide

Crop-specific Recropping and Rotational Cropping

If **Outlook** has been applied to horseradish and potato, and crop failure occurs because of adverse weather or other reasons, replanting (recropping) horseradish and potato is not recommended. If replanting a crop is necessary, plant any crop (e.g. corn, dry bean, grain sorghum, soybean) where soil application of **Outlook** is registered.

Sorghum (Grain)

Outlook may be used preplant surface, preplant incorporated, preemergence, or postemergence to grain sorghum up to 12-inches tall. Single or split application may be used.

Outlook is not registered for use on sweet or forage sorghum.

All **Outlook** applications must only be made to sorghum seed that has been properly treated by the seed company with an approved chloroacetamide herbicide safener or severe injury may occur.

Under high soil moisture or cool conditions, **Outlook** application may cause temporary stunting or leaf wrapping of sorghum. Sorghum will normally outgrow these symptoms in 10 to 14 days.

For best performance, make preemergence surface application within 5 days of the last preplant tillage. If weeds have emerged, apply **Outlook** with herbicides to control emerged vegetation.

Outlook maximum application rates in a single application are 12 to 18 fl ozs/A on coarse-texture soils and 14 to 21 fl ozs/A on medium-texture or fine-texture soils, but are also influenced by soil organic matter content. Refer to **Table 2** for specific maximum application rates of **Outlook** depending on soil type and organic matter content.

Crop-specific Restrictions

- Sorghum forage may be grazed or fed to livestock 60 days or more after application of **Outlook**.
- Preharvest Interval (PHI) for grain and fodder: 80 days
- **DO NOT** apply preplant incorporated in California.

Sorghum Tank Mixes

Outlook may be tank mixed or applied sequentially in sorghum with one or more of, but not limited to, the following herbicide products according to the specific tank mixing instructions in this label and respective product labels:

- Clarity[®] herbicide¹
- Sharpen® powered by Kixor® herbicide
- Verdict[®] powered by Kixor[®] herbicide
- atrazine
- glyphosate
- ¹ Tank mix applications preplant only

Soybean

Use not permitted in California on soybean.

Outlook may be applied preplant surface, preplant incorporated, preemergence, or postemergence [from emergence (cracking stage) to fifth-trifoliate leaf stage] to soybean.

If **Outlook** is applied preplant incorporated, incorporation must be uniform and shallow (upper 1 to 2 inches of soil). Deeper incorporation may reduce weed control or increase

the potential for crop injury. Preplant incorporated treatments are not for use on coarse soils with less than 1.5% organic matter.

If extreme conditions of high rainfall and extended periods of water-saturated soil occur during soybean germination or early seedling development, **Outlook® herbicide** use may result in temporary growth suppression.

Temporary soybean burn and/or stunting may occur with postemergence applications of **Outlook**. Tank mixtures with other herbicides not listed in the **Soybean Tank Mixes** section and/or spray adjuvants may increase the level of crop injury. Crop injury is typically transient and has not resulted in reduced soybean yield potential.

Outlook may be applied in a single application or two split applications.

Outlook maximum application rates in a single application are 12 to 18 fl ozs/A on coarse-texture soils and 14 to 21 fl ozs/A on medium-texture or fine-texture soils, but are also influenced by soil organic matter content. Refer to Table 2 for specific maximum application rates of Outlook depending on soil type and organic matter content. If Outlook is applied only as a single application, DO NOT exceed 21 fl ozs/A.

If **Outlook** is applied in two split applications, maintain a minimum of 14 days between split applications, and **DO NOT** exceed a seasonal total of 24 fl ozs/A of **Outlook**. If two applications are made, apply no more than 8 to 16 fl ozs/A during the first application (applied preplant, preemergence, or postemergence); then apply the remainder (8 to 16 fl ozs/A) of the seasonal maximum rate during the second application (postemergence).

Crop-specific Restrictions

• **DO NOT** graze or feed forage, hay, or straw to livestock.

Soybean Tank Mixes

Outlook may be tank mixed or applied sequentially in soybean with one or more of, but not limited to, the following herbicide products according to the specific tank mixing instructions in this label and respective product labels:

- Extreme® herbicide¹
- Optill[®] powered by Kixor[®] herbicide
- Poast® herbicide
- Prowl® H2O herbicide
- Pursuit® herbicide
- Raptor® herbicide
- Sharpen® powered by Kixor® herbicide
- Verdict® powered by Kixor® herbicide
- Zidua® herbicide
- glyphosate1
- Gramoxone Inteon® herbicide
- Touchdown® herbicide1

For use only in Oregon and Washington.

Outlook may be used as part of a weed management program in winter squash **(Golden Delicious variety only)**.

Outlook may only be applied by **ground (broadcast) application**.

Apply **Outlook** as a **preemergence surface application**. Broadcast the treatment uniformly to the soil surface after planting and before crop and weed emergence. If extreme conditions of high rainfall and extended periods of water-saturated soil occur during winter squash germination or early seedling development, **Outlook** use may result in growth suppression, which may reduce yields.

Outlook may only be applied in single application.

Apply a minimum of 12 to 14 fl ozs/A of **Outlook** on soils with less than 3% organic matter. Apply a minimum of 16 to 18 fl ozs/A on soils with greater than 3% organic matter. **DO NOT** apply more than 21 fl ozs/A of **Outlook** on any soil in a single application.

Crop-specific Restrictions

- **DO NOT** apply to winter squash by air or through any type of irrigation system.
- **DO NOT** apply when conditions favor drift to adjacent susceptible vegetation.
- **DO NOT** apply more than 21 fl ozs/A of **Outlook** per year in winter squash.
- Preharvest Interval (PHI): 90 days

Tank Mixes

Tank mixes with other herbicides or insecticides are not recommended when using this product in winter squash.

Crop-specific Recropping and Rotational Cropping

If **Outlook** has been applied to winter squash and crop failure occurs because of adverse weather or other reasons, replanting (recropping) winter squash is not recommended. If replanting a crop is necessary, plant any crop (e.g. corn, dry bean, grain sorghum, soybean) where soil application of **Outlook** is registered.

Winter Squash

¹ Includes postemergence tank mixes on **Roundup Ready®** (glyphosate-tolerant) soybean varieties

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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