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U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460	EPA Reg. Number: 7969-457	Date of Issuance: 8/14/20	
NOTICE OF PESTICIDE:			
<u>_X</u> Registration	Term of Issuance:		
Reregistration	Conditional		
(under FIFRA, as amended)	Name of Pesticide Produ	et:	
	VERDICT TRIC KIXOR Herbicid		
Name and Address of Registrant (include ZIP Code):			
BASF Corporation			
26 Davis Drive			
Research Triangle Park, NC 27709-3528			
<b>Note:</b> Changes in labeling differing in substance from that accepted in connection with this registrati Registration Division prior to use of the label in commerce. In any correspondence on this product a			
On the basis of information furnished by the registrant, the above n under the Federal Insecticide, Fungicide and Rodenticide Act.	amed pesticide is h	ereby registered	
Registration is in no way to be construed as an endorsement or reco Agency. In order to protect health and the environment, the Admin time suspend or cancel the registration of a pesticide in accordance name in connection with the registration of a product under this Ac registrant a right to exclusive use of the name or to its use if it has b	istrator, on his mo with the Act. The t is not to be constr	tion, may at any acceptance of any rued as giving the	
This product is conditionally registered in accordance with FIFRA with the following conditions:	section 3(c)(7)(A).	You must comply	
1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.			
Signature of Approving Official:	Date:		
San Man FOR	8/14/20		
Emily Schmid, Product Manager 25			
Herbicide Branch, Registration Division (7505P)	<u> </u>		

EPA Form 8570-6

Registration Notice Conditional v.20150320

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- 2. You are required to comply with the data requirements described in the DCI identified below:
  - a. Dimethenamid-p GDCI-120051-1651

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <u>http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1</u>

3. Submit one copy of the final printed label for the record before you release the product for shipment.

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

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

• Basic CSF dated 9/13/2019

If you have any questions, please contact Julia Kerr by phone at 703-347-0386, or via email at kerr.julia@epa.gov.

Enclosure



We create chemistry

# **A C C E P T E D** 8/14/2020

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 2000, 457

7969-457

Saflufenacil	Group	14	Herbicide
Dimethenamid-P	Group	15	Herbicide
Pyroxasulfone	Group	15	Herbicide

# Verdict<sup>®</sup> Trio Powered by Kixor<sup>®</sup> Herbicide

# For use in field corn (grain, seed, silage), popcorn, processing sweet corn, and soybean

#### Active Ingredients\*:

saflufenacil: N'-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-(trifluoromethyl)-3,
6-dihydro-1(2H)-pyrimidinyl)benzoyl]-N-isopropyl-N-methylsulfamide
dimethenamid-P: (S)-(2-chloro-N-[(1-methyl-2-methoxy)ethyl]-N-
(2,4-dimethyl-thien-3-yl)-acetamide) 31.53%
pyroxasulfone: 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-
1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole 4.50%
Other Ingredients:
<b>Total:</b>
* Contains 0.50 pound of saflufenacil, 2.92 pounds of dimethenamid-P, and 0.41 pound of pyroxasulfone per gallon formulated as a suspo-emulsion concentrate

EPA Reg. No. 7969-457

EPA Est. No.

# KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

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:**

	FIRST AID
If in eyes	<ul> <li>Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes; then continue rinsing.</li> <li>Call a poison control center for treatment advice.</li> </ul>
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>DO NOT induce vomiting unless told to by a poison control center or doctor.</li> <li>Have a person sip a glass of water if able to swallow.</li> <li>DO NOT give anything to an unconscious person.</li> </ul>
lf on skin	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
	HOTLINE NUMBER
	container or label with you when calling a poison control center or doctor or going for treatment. act BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

# **Precautionary Statements**

# Hazards to Humans and Domestic Animals

**CAUTION.** Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear protective eyewear (goggles or face shield). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

# Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material including barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils, or Viton ≥ 14 mils
- Protective eyewear (goggles or face shield)

For aerial application, mixers and loaders must also wear a minimum of a NIOSH approved filtering face piece respirator with any N filter (TC-84A). You can also use other NIOSH approved particulate respirators that offer more protection, including a half face or full face respirator with any filter or a powered air purifying respirator with an HE filter. For more information about these options, see www.epa.gov/pesticide-respirators.

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. Remove and wash contaminated clothing before reuse. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

# **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 170.607(d-e)], the handler PPE requirements may be reduced or modified as specified in the WPS.

# USER SAFETY RECOMMENDATIONS

#### Applicators and other handlers 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**

For terrestrial uses, **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.

**Groundwater Advisory.** Saflufenacil and pyroxasulfone have properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow. 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. Surface Water Advisory. DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** contaminate water when disposing of equipment washwater or rinsate. This product may impact surface water due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained buffer strip between areas to which this product is applied and surface water features including ponds, streams, and springs will reduce the potential loading of this chemical from runoff water and sediment. Runoff of this product will be reduced by avoiding application when rainfall is forecast to occur within 48 hours.

**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 described as follows.

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 and/or 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 that favor runoff. **DO NOT** apply to impervious substrates including 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 specifications as affected by soil type in the **Application Instructions** section of this label. **DO NOT** apply if all 3 criteria exist:

- 1. Coarse soils classified as sand (does not include loamy sand or sandy loam)
- 2. Less than 3% organic matter (as determined by soil tests, if not known)
- 3. 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 1/2 inch of rainfall before using tailwater for subsequent irrigation of other fields.

# Endangered Species Protection Requirements

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 whether 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 be available from the above sources 6 months before their effective dates.

# **Directions For Use**

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

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

Observe all restrictions and precautions in this label and the labels of products used in combination with

**Verdict® Trio Powered by Kixor® herbicide**. The use of this product not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

BASF Corporation does not recommend or authorize the use of this product in manufacturing, processing, or preparing custom blends with other products for application in crops.

# 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, including plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material including barrier laminate, butyl rubber
   ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber
   ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks
- Protective eyewear

# 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 an approved 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.

# **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.

(continued)

# STORAGE AND DISPOSAL (continued)

#### Container Handling (continued)

**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.

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 including 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:

<ul> <li>CHEMTREC</li> </ul>	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**

**Verdict® Trio Powered by Kixor® herbicide** (henceforth in this label referred to as **Verdict Trio**) is a selective residual preemergence herbicide for controlling most annual grass weeds, annual broadleaf weeds, and sedges in field corn, popcorn, processing sweet corn, and soybean (refer to **Table 1** for a list of weeds controlled preemergence). Residual preemergence application of **Verdict Trio** must be activated by at least 1/2 inch of rainfall or sprinkler irrigation before weed seedling emergence. When **Verdict Trio** is not activated, a labeled postemergence herbicide or cultivation may be needed to control weed escapes.

**Verdict Trio** also provides contact burndown of many broadleaf weeds (refer to **Table 2** for a list of weeds controlled by a burndown application). An adjuvant (refer to **Additives** section for details) is required with **Verdict Trio** for optimum broadleaf burndown activity. Burndown application of **Verdict Trio** must be made when broadleaf weeds are small and actively growing. Burndown activity may be slowed or reduced under cloudy and/or foggy or cooler weather conditions, or when weeds are growing under drought or other stress conditions. When targeting dense weed populations and/or larger broadleaf weeds, use higher spray volumes. Angling nozzles forward (to 45 degrees) may improve penetration of denser weed canopies.

Tank mixes with contact herbicides (e.g. carfentrazone, paraquat) may reduce the burndown activity of **Verdict Trio**.

Common Name	Scientific Name	C = Control S = Suppression <sup>1</sup>
Annual Broadleaf Weeds		
Amaranth, Palmer	Amaranthus palmeri	С
Amaranth, Powell	Amaranthus powellii	С
Beggarweed, Florida	Desmodium tortuosum	С
Buckwheat, wild	Polygonum convolvulus	С
Buffalobur	Solanum rostratum	С
Burcucumber	Sicyos angulatus	S
Canola, volunteer (rapeseed), all types	Brassica spp.	С
Carpetweed	Mollugo verticillata	С
Chamomile, mayweed	Anthemis cotula	С
Chickweed, common	Stellaria media	С
Cocklebur, common	Xanthium strumarium	С
Copperleaf, Virginia	Acalypha virginica	C
Devil's-claw	Proboscidea louisiana	S
Eclipta	Eclipta prostrata	S
Galinsoga, smallflower	Galinsoga parviflora	C
Groundcherry, cutleaf	Physalis angulata	C
Groundsel, common	Senecio vulgaris	S
Henbit	Lamium amplexicaule	S
Horseweed (marestail)	Conyza canadensis	C
Jimsonweed	Datura stramonium	C
Kochia	Kochia scoparia	C
Ladysthumb	Polygonum persicaria	C
Lambsquarters, common	Chenopodium album	C
Mallow, Venice	Hibiscus trionum	C
Marestail (horseweed)	Conyza canadensis	C
Morningglory, entireleaf	Ipomoea hederacea var. integriuscula	C
Morningglory, ivyleaf	Ipomoea hederacea val. Integridscula	C
Morningglory, pitted	Ipomoea lacunosa	C
Morningglory, tall	Ipomoea purpurea	C
Mustard, wild	Sinapis arvensis	C
Nightshade, black	Solanum nigrum	C
Nightshade, cutleaf	Solanum triflorum	C
Nightshade, Eastern black	Solanum ptycanthum	C
Nightshade, hairy	Solanum sarrachoides	C
Pennycress, field	Thlaspi arvense	C
<b>,</b>	Amaranthus blitoides	C
Pigweed, prostrate	Amaranthus retroflexus	C
Pigweed, redroot		
Pigweed, smooth	Amaranthus hybridus	C
Pigweed, tumble	Amaranthus albus	C
	Tribulus terrestris	S
Purslane, common	Portulaca oleracea	<u> </u>
Pusley, Florida	Richardia scabra	<u> </u>
Ragweed, common	Ambrosia artemisiifolia	C
Ragweed, giant	Ambrosia trifida	C
Shepherds-purse	Capsella bursa-pastoris	S
Sida, prickly	Sida spinosa	C

Common Name	Scientific Name	C = Control S = Suppression <sup>1</sup>
Annual Broadleaf Weeds (conti	nued)	
Smartweed, Pennsylvania	Polygonum pensylvanicum	С
Sowthistle, annual	Sonchus arvensis	С
Spurge, nodding	Chamaesyce nutans	С
Spurge, spotted	Chamaesyce maculata	С
Starbur, bristly	Acanthospermum hispidum	С
Sunflower, common	Helianthus annuus	С
Texasweed	Caperonia palustris	С
Thistle, Russian	Salsola kali	С
Velvetleaf	Abutilon theophrasti	С
Waterhemp	Amaranthus tuberculatus	С
Annual Grass Weeds		
Barley, hare	Hordeum murinum spp. leporinum	С
Barnyardgrass	Echinochloa crus-galli	С
Bluegrass, annual	Poa annua	С
Bluegrass, roughstalk	Poa trivialis	С
Brome, California	Bromus carinatus	С
Brome, downy	Bromus tectorum	С
Brome, Japanese	Bromus japonicus	S
Canarygrass	Phalaris canariensis	С
Cheat	Bromus secalinus	S
Crabgrass, large	Digitaria sanguinalis	C
Crabgrass, smooth	Digitaria ischaemum	C
Crowfootgrass	Dactyloctenium aegyptium	С
Cupgrass, Southwestern	Eriochloa gracilis	С
Cupgrass, woolly	Eriochloa villosa	S
Fescue, rattail	Vulpia myuros	С
Foxtail, giant	Setaria faberi	C
Foxtail, green	Setaria viridis	С
Foxtail, yellow	Setaria pumila	C
Goosegrass	Eleusine indica	C
Johnsongrass (seedling)	Sorghum halepense	S
Millet, Texas	Urochloa texana	S
Millet, wild proso	Panicum miliaceum	S
Oat, wild	Avena fatua	S
Panicum, fall	Panicum dichotomiflorum	C
Panicum, Texas	Panicum texanum	S
Rice, red	Oryza sativa	C
Ryegrass, Italian	Lolium multiflorum	C
Ryegrass, rigid	Lolium rigidum	C
Sandbur	Cenchrus spp.	S
Shattercane	Sorghum bicolor	S
Signalgrass, broadleaf	Brachiaria platyphylla	S
Witchgrass	Panicum capillare	C

#### Table 1. Weeds Controlled by a Residual Preemergence Application of Verdict® Trio herbicide (continued)

Scientific Name	C = Control S = Suppression <sup>1</sup>
Cyperus iria	С
Cyperus esculentus	S
	Cyperus iria

<sup>1</sup> Verdict Trio must be used in tank mixes or sequential applications with other labeled herbicides that provide additional control of noted weeds.

#### Table 2. Broadleaf Weeds Controlled by a Burndown Application of Verdict® Trio herbicide

Common Name	Scientific Name	C = Control S = Suppression	Maximum Height or Diameter (inches)
Amaranth, Palmer	Amaranthus palmeri	C	6
Bedstraw, catchweed	Galium aparine	С	3
Beggarticks, hairy	Bidens pilosa	C	6
Beggarweed, Florida	Desmodium tortuosum	C	6
Bindweed, field	Convolvulus arvensis	S <sup>1</sup>	6
Buckwheat, wild	Polygonum convolvulus	С	3
Canola, volunteer (rapeseed)	Brassica spp.	С	6
Carpetweed	Mollugo verticillata	С	6
Chickweed, common	Stellaria media	S	3
Cocklebur, common	Xanthium strumarium	C	6
Cotton, volunteer	Gossypium hirsutum	C	growing from seed, ≤ 6 leaves
Cowcockle	Vaccaria pyramidata	С	4
Dandelion	Taraxacum officinale	S <sup>1</sup>	6
Eveningprimrose, cutleaf	Oenothera laciniata	С	4
Falseflax, smallseed	Camelina microcarpa	С	4
Filaree, redstem	Erodium cicutarium	S	3
Fleabane, hairy	Conyza bonariensis	С	6
Flixweed	Descurainia sophia	С	6
Groundcherry, cutleaf	Physalis angulata	С	6
Groundsel, common	Senecio vulgaris	С	4
Hawksbeard, narrowleaf	Crepis tectorum	С	6
Hemlock, poison	Conium maculatum	С	6
Henbit	Lamium amplexicaule	S	3
Horseweed (marestail)	Conyza canadensis	С	6
Knotweed, prostrate	Polygonum aviculare	С	3
Kochia	Kochia scoparia	С	3
Ladysthumb	Polygonum persicaria	С	6
Lambsquarters, common	Chenopodium album	С	6
Lambsquarters, narrowleaf	Chenopodium pratericola	С	6
Lettuce, prickly	Lactuca serriola	С	6
Mallow, common	Malva neglecta	С	6
Mallow, little (cheeseweed)	Malva parviflora	С	6
Mallow, Venice	Hibiscus trionum	С	6
Marestail (horseweed)	Conyza canadensis	С	6
Morningglory, entireleaf	Ipomoea hederacea var. integriuscula	С	6
Morningglory, ivyleaf	Ipomoea hederacea	С	6
Morningglory, palmleaf	lpomoea wrightii	С	6
Morningglory, pitted	Ipomoea lacunosa	С	6

Common Name	Scientific Name	C = Control S = Suppression	Maximum Height or Diameter (inches)
Morningglory, tall	lpomoea purpurea	С	6
Mustard, black	Brassica nigra	С	6
Mustard, tumble	Sisymbrium altissimum	С	6
Mustard, wild	Sinapis arvensis	С	6
Nettle, burning	Urtica urens	С	4
Nightshade, black	Solanum nigrum	С	6
Nightshade, cutleaf	Solanum triflorum	С	6
Nightshade, Eastern black	Solanum ptycanthum	С	6
Nightshade, hairy	Solanum saccharoides	С	6
Parthenium	Parthenium hysterophorus	С	6
Pennycress, field	Thlaspi arvense	С	6
Pigweed, prostrate	Amaranthus blitoides	С	6
Pigweed, redroot	Amaranthus retroflexus	С	6
Pigweed, smooth	Amaranthus hybridus	С	6
Puncturevine	Tribulus terrestris	С	6
Purslane, common	Portulaca oleracea	С	3
Pusley, Florida	Richardia scabra	S	3
Ragweed, common <sup>2</sup>	Ambrosia artemisiifolia	С	6
Ragweed, giant	Ambrosia trifida	С	6
Rocket, London	Sisymbrium irio	С	6
Sesbania, hemp	Sesbania exaltata	С	4
Shepherd's-purse	Capsella bursa-pastoris	С	6
Sida, prickly	Sida spinosa	С	6
Smartweed, Pennsylvania	Polygonum pensylvanicum	С	6
Sowthistle, annual	Sonchus oleraceus	С	6
Sowthistle, spiny	Sonchus asper	С	6
Sunflower, common	Helianthus annuus	С	6
Tansymustard, pinnate	Descurainia pinnata	С	6
Texasweed	Caperonia palustris	С	6
Thistle, Canada	Cirsium arvense	S <sup>1</sup>	6
Thistle, Russian	Salsola kali	С	3
Velvetleaf	Abutilon theophrasti	С	6
Waterhemp <sup>2</sup>	Amaranthus tuberculatus	С	6
Willowweed	Epilobium adenocaulon	С	3
	· · · · · · · · · · · · · · · · · · ·		

#### Table 2. Broadleaf Weeds Controlled by a Burndown Application of Verdict® Trio herbicide (continued)

<sup>1</sup> Control of seedling stage and suppression of perennial growth stage

<sup>2</sup> Populations of noted weeds exist that are known to be resistant to burndown applications of **Group 14/Group E** herbicides and will not be controlled by herbicides like **Verdict Trio**. See the **Herbicide Resistance Management** section for practices to manage and minimize the impact of resistant weeds (e.g. tank mixes or alternation with other herbicide modes of action, crop rotation, and mechanical control).

# Mode of Action

Verdict<sup>®</sup> Trio herbicide contains three active herbicide ingredients. Saflufenacil is a potent inhibitor of protoporphyrin-ogenoxidase belonging to herbicide modeof-action Group 14 (WSSA)/Group E (HRAC). Dimethenamid-P is a chloroacetamide belonging to the herbicide mode-of-action Group 15 (WSSA)/Group K<sub>3</sub> (HRAC). Pyroxasulfone is a potent inhibitor of very long chain fatty acid (VLCFA) synthesis, also belonging to herbicide mode-of-action Group 15 (WSSA) /Group K<sub>3</sub> (HRAC). Saflufenacil is rapidly absorbed by roots and foliage. Following inhibition of the protoporphyrinogenoxidase, plant death is the result of membrane damage. Under active growing conditions, susceptible emerging weed seedlings usually develop chlorotic and necrotic injury symptoms within hours and die within a few days. Susceptible germinating weed seeds usually die as they reach the soil surface or shortly after emergence. Dimethenamid-P and pyroxasulfone are root-and-shoot inhibitors that control susceptible weed seedlings before or soon after they emerge from the soil.

# Herbicide Resistance Management

For resistance management, **Verdict Trio** contains both a **Group 14/Group E** herbicide and **Group 15/Group K<sub>3</sub>** herbicides. Any weed population may contain plants naturally resistant to **Group 14** and/or **Group 15** herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly are used repeatedly in the same fields. Appropriate resistant-management strategies should be followed.

#### To delay herbicide resistance consider:

- Avoiding the consecutive use of herbicides that have a similar target-site-of-action on the same weed species.
- Using tank mixes or premixes with herbicides from different target-site-of-action groups as long as the involved products are all registered for the same use, have different sites of action, and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Basing herbicide use on a comprehensive IPM (Integrated Pest Management) program including cultural and mechanical methods.
- Monitoring treated weed populations for loss of field efficacy, and control of escapes with effective alternative herbicides or mechanical methods.
- Identify weeds present in the field through scouting and field history and understand their biology. The weed-control program needs to consider all of the weeds present.
- Scout fields prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective.
- Scout fields after application to verify the treatment was effective.

- Suspected herbicide-resistance weeds may be identified by these indicators:
  - 1. Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
  - 2. A spreading patch of non-controlled plants of a particular weed species; and
  - 3. Surviving plants mixed with controlled individuals of the same species.
- If resistance is suspected, treat weed escapes with a herbicide with a different MOA and/or use non-chemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Report any incidence of non-performance of this product against a particular weed species to your BASF representative.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for herbicide resistance management and/or integrated weed management directions for specific crops and resistant weed biotypes.

# **Crop Response**

No crop injury is expected when **Verdict Trio** is applied according to label directions as a preplant to preemergence treatment and under normal environmental conditions. Crop injury may occur when application is made under stressful growing conditions (e.g. drought or excessive moisture for normal crop development, extreme hot or cold temperatures, seedling disease, low soil fertility, high soil pH, high soil salt concentration, or other pesticide injury.

Severe crop injury will result if **Verdict Trio** is applied postemergence (over the top) to corn or soybean.

# **Application Instructions**

**Verdict Trio** may be applied preplant surface, preplant incorporated, or preemergence to field corn, popcorn, processing sweet corn, and soybean. Apply **Verdict Trio** only before crop emergence.

**Rainfastness** - **Verdict Trio** is rainfast 1 hour after application. Burndown activity may be reduced if rain or irrigation occurs within 1 hour of application.

# **Application Rate**

Application rates of **Verdict Trio** for residual preemergence weed control may vary depending on soil texture and organic matter. Refer to **Table 3** for soil texture groups used in this label.

#### Table 3. Soil Texture Groups

Coarse	Medium	Fine
Sand Loamy sand Sandy loam	Silt Silt Ioam Loam Sandy clay Ioam	Sandy clay Silty clay Silty clay loam Clay loam Clay

Refer to the **Crop-specific Information** section for specific application directions and the restrictions and precautions by crop use and pattern. Use **Table 4** to determine the corresponding amounts of active ingredients (saflufenacil, dimethenamid-P, pyroxasulfone) from **Verdict® Trio herbicide** product use rates.

Amount of Verdict Trio (fl ozs/A)	Amount of Saflufenacil (Ib ai/A)	Amount of Dimethenamid-P (Ib ai/A)	Amount of Pyroxasulfone (Ib ai/A)
5.5	0.021	0.126	0.018
8.5	0.033	0.194	0.028
11.0	0.043	0.251	0.036
13.5	0.053	0.308	0.044
17.0	0.066	0.387	0.055
21.0	0.082	0.479	0.068
28.0	0.109	0.637	0.091

#### Table 4. Use Rate Equivalency

# **Application Timing**

**Verdict Trio** may be applied preplant surface, preplant incorporated, preemergence, or in the fall. Refer to the **Crop-specific Information** section for specific application instructions (timings, rates, restrictions and precautions) by crop.

**Preplant Surface Application.** Apply **Verdict Trio** alone or in tank mix within 30 days of planting. If weeds are present at the time of application, use additional weed control methods, for example a tank mix with an appropriate postemergence herbicide(s), to control emerged weeds. Burndown control of emerged grass weeds or additional broadleaf weeds not listed on the label requires a tank mix with another herbicide.

**Preplant Incorporated (PPI) Application.** Incorporate **Verdict Trio** into the upper (1 to 2 inches) soil surface within 14 days of planting. Deeper incorporation may increase the potential for crop injury and also may result in reduced weed control. Use appropriate equipment for uniform shallow incorporation, including a field cultivator, harrow, rolling cultivator, or finishing disc.

**Preemergence Surface Application.** After planting and before crop emergence, apply a uniform broadcast treatment to the soil surface. Apply **Verdict Trio** only to a uniform seedbed which is firm and free of clods, cracks, excess trash (previous crop residue), and weed growth. If weeds are present, apply **Verdict Trio** in a tank mix with an appropriate postemergence herbicide, for example a glyphosate-containing product. Burndown control of emerged grass weeds or additional broadleaf weeds not listed on the label requires a tank mix with another herbicide.

Fall/Winter Application for controlling weeds germinating in the fall, or winter weeds. Verdict Trio may be broadcast surface applied in the fall after crop harvest. DO NOT apply to frozen or snow-covered soil. Tillage operations may be conducted before or after applying Verdict Trio. If tillage is used following an application, tillage must be shallow (no more than 2-inches deep) to uniformly incorporate the herbicide into the upper soil surface.

# **Application Methods and Equipment**

**Verdict Trio** may be applied by aerial or ground application or by chemigation application via sprinkler irrigation.

Thorough spray coverage is required for optimum weed control and can be improved with proper adjuvant, nozzle, and spray volume selection. Use and configure application equipment to provide an adequate spray volume, an accurate and uniform distribution of spray droplets over the treated area, and to avoid spray drift to nontarget areas. Adjust equipment to maintain continuous agitation during spraying with good mechanical or bypass agitation. Avoid overlaps that increase rates above the use rates specified in this label.

**Verdict Trio** may be applied using water or sprayable fluid nitrogen fertilizer solutions as the spray carrier. Additionally, **Verdict Trio** may be impregnated on and applied with dry bulk fertilizer.

Aerial Spray Carrier Volume. Use 3 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.

**Ground Spray Carrier Volume.** Use 3 or more gallons of water per treated acre or 20 or more gallons of sprayable fluid nitrogen fertilizer per treated acre. Thorough coverage of existing vegetation is essential for burndown applications and higher spray volumes may be necessary for better performance.

# Mandatory Spray Drift Management

# **Aerial Applications**

- **DO NOT** release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For all applications, applicators are required to use a medium to ultra coarse spray droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

# **Ground Applications**

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all applications, applicators are required to use a medium to ultra coarse spray droplet size (ASABE S572.1).
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- DO NOT apply during temperature inversions.

# **Buffer Restrictions**

# **Aerial Applications**

To avoid potential adverse effects to nontarget areas, applicators **must maintain a 120-foot buffer** between the application area and the **closest downwind edge** of nontarget terrestrial habitats (including grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas, shrub lands, and crop lands).

# **Ground Applications**

To avoid potential adverse effects to nontarget areas, applicators **must maintain a 60-foot buffer** between the application area and the **closest downwind edge** of nontarget terrestrial habitats (including grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas, shrub lands, and crop lands).

# Spray Drift Advisories

The applicator is responsible for avoiding off-site spray drift. Be aware of nearby nontarget sites and environmental conditions.

# Importance of Droplet Size

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

#### **Controlling Droplet Size - Ground Boom Volume**

**Volume.** Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

**Pressure.** Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.

**Spray Nozzle.** Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size - Aircraft Adjust Nozzles**

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

#### **Boom Height - Ground Boom**

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

#### Release Height - Aircraft

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

#### **Shielded Sprayers**

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

#### **Temperature and Humidity**

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

#### **Temperature Inversion**

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

#### Wind

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

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

# Chemigation Application via Sprinkler Irrigation Systems

Verdict<sup>®</sup> Trio herbicide 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 mixes 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 directions for use label.

Uniform distribution of **Verdict Trio**-treated irrigation water is the sole responsibility of the applicator and is required to avoid crop injury, lack of herbicide effectiveness, or illegal pesticide residues in the crop. For calibration questions, contact State Extension Service specialists, equipment manufacturers, or other experts.

Proper calibration is the responsibility of the applicator. The system must be calibrated (with water only) to ensure the amount of **Verdict Trio** applied corresponds to the specified rate. Apply **Verdict Trio** in volume minimums of 0.33 to 0.67 inches of water using the lower volume for coarse-texture soils and the higher volume for fine-texture soils. Applications 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 systems. For solid-set and hand-move irrigation systems, apply **Verdict Trio** 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 **Verdict Trio** in a minimum of 3 parts water to 1 part **Verdict Trio**. Maintain agitation in injection nurse tanks to keep a uniform herbicide suspension during application.

#### **Restrictions for chemigation:**

- 1. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.
- 2. **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 if the need arise.
- 4. Tail water (runoff water) from chemigation that contains Verdict Trio must be recirculated and/or contained in the field in a cistern or holding reservoir from the initial application and/or used only on adjacent, approved crops for which Verdict Trio 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, like a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials 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:

- 1. 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, the water from the public water system may be discharged into a reservoir tank before 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.
- 3. All chemigation systems connected to public water systems must also follow restrictions listed in the preceding section.

# Ground Application (dry bulk fertilizer)

**Verdict Trio** may be impregnated or coated onto dry bulk granular fertilizer carriers for residual soil surface application. Impregnation or coating may be conducted by in-plant bulk or on-board systems. Perform the mixing operation in well-ventilated areas.

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

Generally, fertilizer application rates of at least 200 lbs to 700 lbs per acre of herbicide and fertilizer blend provide adequate distribution or coverage for **Verdict Trio** across the soil surface. Apply uniformly to the soil to prevent possible crop injury and offer satisfactory weed control. Impregnated fertilizer spread at 1/2 rate and overlapped for a full rate offer a more uniform distribution. Use shallow (less than 2 inches) incorporation for improved weed control. Deeper incorporation dilutes the herbicide layer near the soil surface and may result in unsatisfactory weed control.

To calculate the herbicide rate when using dry bulk fertilizer applications:

fl ozs herbicide per acre	v	2000	_	fl ozs herbicide
pounds fertilizer per acre	~	2000	=	per ton of fertilizer

# **Cleaning Spray Equipment**

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

# **Additives**

For optimum burndown activity with **Verdict Trio**, an adjuvant system must be used that includes the following:

Adjuvant	Rate
Methylated seed oil (MSO) <sup>1</sup>	1 gal/100 gals (1% v/v) <sup>2</sup>
PLUS	PLUS
Ammonium sulfate (AMS)	8.5 to 17.0 lbs/100 gals (1% to 2% w/v)
or	or
Urea ammonium nitrate (UAN)	1.25 to 2.5 gals/100 gals (1.25% to 2.5% v/v)

<sup>1</sup>MSO-based adjuvant **MUST** contain at least 60% methylated seed oil. Poor performance may occur with adjuvants containing less than 60% methylated seed oil.

<sup>2</sup> **DO NOT** use less than 1 pint/A of MSO with low-volume (less than 12.5 gallons/A) aerial or ground applications.

When fluid fertilizer is used as the spray carrier, add 1 pint/A of MSO for optimum burndown activity.

The use of AMS fertilizer is highly recommended when mixing **Verdict Trio** with glyphosate-based herbicides.

**DO NOT** use a nonionic surfactant (NIS) as a substitute for MSO or poor performance on broadleaf weeds will occur.

When an adjuvant is to be used with this product, BASF recommends the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant.

# **Tank Mixing Information**

It is the pesticide user's responsibility to ensure that all products in the 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.

**Verdict Trio** may be tank mixed or applied sequentially with other herbicide products registered for use in any labeled crop found in this label for a broader spectrum of residual weed control and/or control of emerged weeds. Refer to the tank mix product labels to confirm that the respective tank mix products are registered for use on the labeled crop. Read and follow tank mix product labels for application instructions, use restrictions and precautions, and rotational cropping guidance.

# **Compatibility Test for Mix Components**

Before mixing components, always perform a compatibility jar test.

- 1. For 20 gallons per acre 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.
- 2. Add components in the sequence indicated in the **Mixing Order** section using 2 teaspoons for each pound or 1 teaspoon for each pint of labeled use rate per acre.
- 3. Always cap the jar and invert 10 cycles between component additions.
- 4. When the components have all been added to the jar, let the solution stand for 15 minutes.
- 5. Evaluate the solution for uniformity and stability. The spray solution must 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.

**Ammonium thiosulfate (ATS):** BASF recommends using a compatability agent when tank mixing ammonium thiosulfate fertilizers with **Verdict Trio** or **Verdict Trio** tank mixtures.

# **Mixing Order**

Maintain constant agitation throughout mixing and application until spraying is completed.

- 1. Water Fill tank 1/2 to 3/4 full with clean water and start agitation.
- 2. **Inductor** If an inductor is used, rinse it thoroughly after each component has been added.
- 3. **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-soluble additives** (including dry and liquid fertilizers AMS or UAN)
- Water-dispersible products (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions
   Add Verdict<sup>®</sup> Trio herbicide at this point in the mixing process)
- 6. Water-soluble products
- 7. Emulsifiable concentrates (including MSO adjuvants)
- 8. Remaining quantity of water

If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend spray mixture before spraying is resumed. Continue agitation while spraying.

# **Use Restrictions**

- Maximum use rate Refer to Crop-specific Information section for the maximum application use rates of Verdict Trio in each crop.
- If additional saflufenacil, dimethenamid-P, or pyroxasulfone are applied from other product sources, refer to the **Crop-specific Restrictions** section for each crop use for the maximum cumulative amount per year for each active ingredient.
- **DO NOT** apply **Verdict Trio** after crop emergence because severe crop injury will occur.
- **DO NOT** contaminate irrigation ditches or water used for domestic purposes.
- Verdict Trio is not for sale, distribution, or use in Nassau and Suffolk counties in New York State.

# **Crop Rotation Intervals**

• Use **Table 5** to determine the proper interval between **Verdict Trio** application and the planting of rotational crops.

#### Table 5. Rotational Crop Planting Intervals for Verdict<sup>®</sup> Trio herbicide

	Verdict Trio Use Rate (fl ozs/A)						
	5.5	8.5	11	13.5	17	21	> 21 to 28
		1		ional Crop Ir hs after applic			
Alfalfa	4	6	9	9	10	10	10
Beans (edible) <sup>2</sup>	4	6	9	9	11	11	11
Canola (rapeseed)	4	6	9	12	12	12	15
Chickpea	0	0	0	1	2	4	6
Corn, field	0	0	0	0	0	0	0
Corn, sweet	0.5	1	1	2	2	3	4
Cotton	1.5	2	3	4	4	6	6
Fruit and nut trees	6	9	12	18	18	18	24
Grass (forage, seed) establishment	6	6	12	12	18	18	18
Lentil	4	4	4	4	4	4	6
Peas (dry field)	4	4	4	4	4	4	6
Peas (edible)	4	4	6	6	9	9	11
Peanut	4	5	5	6	6	7	8
Potato	4	5	5	6	6	7	8
Rice	4	5	6	8	10	11	12
Small grains <sup>3</sup> (other than wheat)	4	4	6	11	11	11	11
Sorghum (grain)	4	4	4	6	6	6	10
Soybean <sup>₄</sup>	0 to 1	0.5 to 1	1 to 1.5	1 to 1.5	2 to 3	4	6
Sugarbeet	4	5	6	9	12	12	15
Sugarcane	4	4	4	5	6	6	8
Sunflower	4	4	5	5	6	7	9
Wheat	4	4	4	4	4	4	4
Cover crops (winter, spring)⁵	4	4	4	4	4	4	6
Other crops	4	6	8	12	18	18	18

 $^{\rm 1}\,{\rm DO}\,\,{\rm NOT}$  include time when the soil is frozen.

<sup>2</sup> Edible bean refers to black-eyed pea, crowder pea, cowpea, and southern pea. Use the **Other Crops** rotational crop planting interval for beans not specifically listed in this table.

<sup>3</sup> Small grains (barley, oats, pearl millet, proso millet, rye, triticale)

<sup>4</sup> The planting interval for these crops and rates is further defined in the respective **Crop-specific Information** section of this label. Use the longer interval within listed ranges for indicated crops grown on coarse-texture soils with organic matter less than 2.0%.

<sup>5</sup> Cover crops (winter, spring) may be planted after application of **Verdict Trio**, 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 **Verdict Trio**, stand establishment may be reduced. If cover crops are sown for conservation purposes less than 4 months after **Verdict Trio** application, **DO NOT** harvest as a food or feed crop, and **DO NOT** allow livestock to graze cover crops.

# **Emergency Replanting Intervals**

- Field corn, popcorn, and sweet corn (according to application rates in **Crop-specific Information**) may be replanted immediately after crop failure (because of environmental factors, including drought, frost, hail, etc.).
- Soybean (according to the application rates in **Crop-specific Information**) may be replanted (according to the intervals in the chart following) after crop failure (because of environmental factors including drought, frost, hail, etc).

#### Replanting Intervals to Soybean Following Crop Failure

	Verdict <sup>®</sup> Trio herbicide Application Rate (fl ozs/A)				
Soil Description	5.5	8.5	11 to 13.5	17	21
	<b>Replanting Interval</b> (months after application)				
Coarse soils ≤ 2% organ- ic matter	1	1	1.5	3	4
All other soils	0	0.5	1	2	4

• Determine the rotational crop interval for tank mix products and follow the most restrictive interval of all products applied.

# **Crop-specific Information**

Read product information, mixing, application, weeds controlled, and adjuvant instructions in preceding sections of the label.

Depending on specific crop application directions, **Verdict Trio** may be applied for residual control of germinating weed seedlings before planting (preplant) or after planting but before crop emergence (preemergence) (refer to **Table 1** for list of weeds controlled) or burndown control of emerged broadleaf weeds (refer to **Table 2** for list of weeds controlled).

Thorough spray coverage is required for control of emerged broadleaf weeds. High populations and/or variations in weed size can prevent adequate spray coverage. Controlling fall-germinated weeds in the spring (e.g. horseweed/marestail) also requires thorough spray coverage. Use higher spray volumes (e.g. 15 to 20 gallons of water per acre) in these situations to increase spray coverage and optimize burndown activity.

# Field Corn (grain, seed, silage), Popcorn, and Sweet Corn

**Verdict Trio** may be applied preplant surface, preplant incorporated, or preemergence to corn. Corn in this label refers to field corn (grown for grain, seed, or silage), popcorn, and sweet corn (processing varieties only, not including sweet corn grown for seed or fresh market varieties). Before applying **Verdict Trio** to seed corn, processing sweet corn, or popcorn, verify the selectivity of **Verdict Trio** on your inbred line or hybrid with your local seed company (supplier) to help avoid potential injury to sensitive inbreds or hybrids.

# **Application Rate**

Apply **Verdict Trio** in corn at the residual rates provided in **Table 6**, and in popcorn and processing sweet corn at residual rates in **Table 7**.

# Table 6. Residual Preemergence Rates ofVerdict Trio in Field Corn and Popcorn

Soil Texture <sup>2</sup>	Rate <sup>1</sup> by Soil Texture (fl ozs/A)	
Coarse	11 to 13.5	
Medium	11 to 17	
Fine	11 to 21	
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<sup>1</sup> The length of residual weed control provided by **Verdict Trio** is dependent on the soil, environmental conditions, and rate applied. Apply a higher rate within the range listed by soil texture for longer residual control and/or higher weed infestations, or apply a lower rate within the range listed by soil texture for the residual component (i.e., preplant or preemergence application) of a planned sequential (two-pass) weed control program.

<sup>2</sup> Refer to **Table 3** for definition of soil texture groups.

# Table 7. Residual Preemergence Rates ofVerdict Trio in Processing Sweet Corn

Soil Texture <sup>1</sup>	Rate by Soil Texture (fl ozs/A)	
Coarse	11 ( <b>DO NOT</b> apply on coarse soils with ≤ 3% organic matter)	
Medium	11	
Fine	11	

<sup>1</sup> Refer to **Table 3** for definition of soil texture groups.

# **Application Timing**

# **Fall Application**

#### For use only in Iowa, Minnesota, North Dakota, South Dakota, and Wisconsin Verdict<sup>®</sup> Trio herbicide may be broadcast surface

applied in the fall to control weeds in conventional, minimum tillage, or no-till corn production systems planted the following spring. Apply from 21 to 28 fluid ounces of **Verdict Trio** per acre to medium-texture and fine-texture soils with more than 2.5% organic matter. Fall applications must be made after October 1.

Broadcast surface apply **Verdict Trio** in the fall after crop harvest when soil temperatures at the 4-inch depth are sustained at less than 55° F and before the ground freezes. Tillage operations may be conducted before or after applying **Verdict Trio**. When following an application, tillage must be no more than 2-inches to 3-inches deep to uniformly incorporate the herbicide into the upper soil surface. When a sequential application program (fall application followed by spring application of **Verdict Trio**) is used, the maximum combined rate of **Verdict Trio** that may be applied is 28 fluid ounces per acre per year.

# Early Preplant Surface Application (within 15 to 30 days of planting)

Use application rates in **Table 6** when making early preplant surface applications, using the highest application rate for a given soil texture. Early preplant surface applications are not advised on coarse soils, in areas where average annual rainfall (or rainfall plus irrigation) typically exceeds 40 inches, or for popcorn or processing sweet corn.

Early preplant surface applications may be applied as part of a split application program where applications are made as part of the application timings described in this label. However, the cumulative total of sequential application rates must not exceed the maximum labeled rate for a given soil texture.

# Preplant Surface and Preplant Incorporated Application (within 14 days of planting)

Apply **Verdict Trio** at use rates specified in **Table 6** and **Table 7** as a broadcast spray to the soil surface or incorporated before planting on all soil types.

# **Preemergence Surface Application**

Apply **Verdict Trio** at use rates specified in **Table 6** and **Table 7** as a broadcast spray to the soil surface after planting and before crop emergence. **Verdict Trio** must be applied before crop emergence or injury will occur.

# **Burndown plus Residual Weed Control**

In addition to residual weed control at any of the application timings previously described, **Verdict Trio** also provides burndown of emerged broadleaf weeds listed in **Table 2**. An adjuvant system (refer to **Additives** section for details) is required for optimum burndown activity. Burndown control of emerged grass weeds or additional broadleaf weeds not listed on the label requires a tank mix with another herbicide (like glyphosate).

Residual preemergence application rates of **Verdict Trio** can follow a fall or early preplant burndown application of **Sharpen® herbicide**. However, **DO NOT** apply more than the annual maximum cumulative amount per acre of saflufenacil from all product sources. A minimum of 14 days is required between **Verdict Trio** and **Sharpen** applications.

# **Burndown Weed Control Only**

If limited or no residual broadleaf weed control is desired, **Verdict Trio** can be applied at 5.5 fl ozs/A (all soil types) with an adjuvant system any time before corn emergence for burndown of broadleaf weeds listed in **Table 2**. A burndown application of **Verdict Trio** can be followed by residual rates of **Verdict Trio** (**Table 6**) or **Sharpen**. Separate sequential applications by at least 14 days. However, **DO NOT** apply more than the annual maximum cumulative amount per acre of saflufenacil from all product sources.

**Enhanced Burndown in Seed Corn.** Apply **Verdict Trio** preplant surface or preemergence at 5.5 to 11 fl ozs/A with an adjuvant system for enhanced burndown broadleaf weed control in seed corn before crop emergence. **DO NOT** apply more than 5.5 fl ozs/A on coarse soils. A sequential application of **Verdict Trio** may be made with a minimum of 30 days between applications. **DO NOT** apply more than a maximum cumulative amount of 21 fl ozs/A of **Verdict Trio** per year in seed corn.

# **Crop-specific Restrictions**

- **DO NOT** apply **Verdict Trio** after corn emergence or severe crop injury will occur.
- **DO NOT** apply **Verdict Trio** where an at-planting application of an organophosphate or carbamate insecticide(s) is planned and/or has occurred because severe injury may result. **Verdict Trio** may be applied with all other classes of at-planting insecticides including neonicotinoids and pyrethoids.

EXCEPTION: Verdict Trio may be applied when Aztec<sup>®</sup> 2.1% Granular Insecticide, AZTEC<sup>®</sup> 4.67 G granular insecticide, or SmartChoice<sup>™</sup> 5G granular insecticide is applied at planting as a band, T-band, or infurrow.

- **DO NOT** apply more than a maximum cumulative amount of 28 fl ozs/A of **Verdict Trio** per year.
- Maximum number of applications per year: 2
- Separate sequential applications by at least 14 days.
- If additional saflufenacil is applied from other product sources, **DO NOT** apply more than the following maximum cumulative amount of saflufenacil per year in corn: 0.134 lb ai/A on all soils.
- If additional dimethenamid-P is applied from other product sources, **DO NOT** apply more than the following maximum cumulative amount of dimethenamid-P per year in corn: 1.125 lbs ai/A on all soils.

- If additional pyroxasulfone is applied from other product sources, **DO NOT** apply more than the following maximum cumulative amounts of pyroxasulfone per year in corn: 0.146 lb ai/A on coarse soils, 0.159 lb ai/A on medium soils, and 0.213 lb ai/A on fine soils.
- DO NOT harvest sweet corn ears for human consumption less than 37 days after application of Verdict<sup>®</sup> Trio herbicide.
- Corn, popcorn, or sweet corn forage and silage must not be harvested, fed, or grazed sooner than 80 days after application.
- There is no required (preharvest) interval between a preplant surface, preplant incorporated, or preemergence application of **Verdict Trio** and the harvest of field corn grain, popcorn, and seed corn. Corn forage, stover, and sweet corn cannery waste may be fed to livestock after harvest.

# **Crop-specific Precautions**

- Verdict Trio application may result in delayed corn emergence and stunting under certain environmental conditions including cool temperatures, excessive rainfall/irrigation, and/or persistent wet soil conditions occurring after application.
- Ensure the corn seed row is closed. Soil conditions that cause poor seed furrow closure and coverage may result in delayed corn emergence or stunting.
- **Verdict Trio** applied to processing sweet corn planted at a depth of 1/2 inch or less may result in crop injury.

#### Fallow

**Verdict Trio** may be used as a burndown treatment to control broadleaf weeds at any time of the year during the fallow period following crop harvest and before the following crop is planted.

# **Application Rate and Timing**

Apply **Verdict Trio** as a broadcast burndown spray at 5.5 to 11 fl ozs/A plus recommended adjuvants (refer to **Additives** section for details). For best product performance, apply **Verdict Trio** when broadleaf weeds are small and actively growing (refer to **Table 2** for list of weeds controlled). Thorough coverage of existing weeds is essential and higher spray volumes may be needed for best performance.

Sequential applications may be made with a minimum of 14 days between applications; **DO NOT** apply more than a maximum cumulative amount of 28 fl ozs/A of **Verdict Trio** per year.

For residual weed control, **Verdict Trio** may be applied at 11 to 28 fl ozs/A.

Specific rotational crop intervals must be observed between an application of **Verdict Trio** and planting of the following crop (see **Crop Rotation Intervals** section for crop rotation restrictions).

#### Soybean

**Verdict Trio** may be applied in the fall and/or in the spring as a preplant or preemergence burndown application in conventional and reduced-till or no-till soybean for broadleaf weed control. An adjuvant system (refer to **Additives** section for details) is required for optimum burndown activity.

Under high soil moisture and/or cool conditions, **Verdict Trio** application may cause temporary stunting or leaf chlorosis/necrosis of soybean. Soybean normally outgrows these symptoms within 10 to 14 days.

Not for use in soybean in California.

# **Application Rate and Timing**

# **Fall Application**

Apply **Verdict Trio** at 5.5 to 11 fl ozs/A for burndown broadleaf weed control after the prior crop is harvested. For residual weed control, **Verdict Trio** may be applied up to 17.0 fl ozs/A. Application must be made before first killing frost. Fall application can be made to all soil types.

#### **Spring Application**

For all spring applications of **Verdict Trio**, refer to **Soybean Planting Interval** information for minimum planting intervals.

Apply **Verdict Trio** early preplant through preemergence at 5.5 fl ozs/A for burndown broadleaf weed control before crop emergence.

Apply **Verdict Trio** early preplant at 8.5 to 11 fl ozs/A for burndown plus residual weed control.

#### **Sequential Application**

Apply **Verdict Trio** following a fall or early preplant burndown application of **Sharpen® herbicide OR Verdict Trio** (at 5.5 to 11 fl ozs/A). However, **DO NOT** apply more than the annual maximum cumulative amount per acre of saflufenacil from all product sources; see **Crop-specific Restrictions** section. A minimum of 30 days and 60 days is required between product applications totaling 0.043 lb ai/A and 0.066 lb ai/A of saflufenacil, respectively.

# Soybean Planting Interval

Depending on **Verdict Trio** use rate, soil texture, and organic matter, an interval between **Verdict Trio** application and planting may be required (see **Table 8** and **Table 9**). This interval must be observed before planting soybean or crop injury may occur.

#### Table 8. Minimum Soybean Planting Intervals

Minimum Preplant Interval (days) Required between Verdict <sup>®</sup> Trio herbicide Application and Soybean Planting			
Vardiat Tria	Soil Texture <sup>1</sup>		
Verdict Trio Use Rate (fl ozs/A)	Coarse Soils with ≤ 2.0% Organic Matter	All Other Soils	
5.5	30	0	
8.5	30	14	
11	44	30	

<sup>1</sup> Refer to **Table 3** for definition of soil texture groups.

Table 9. Minimum Soybean Planting Intervals whenVerdict Trio is Applied with other Group 14/Group EHerbicides1

Minimum Preplant Interval		
(days)		
Required between Verdict Trio Application and		
Soybean Planting when Tank Mixed or Sequentially		
Applied with a Group 14/Group E Herbicide <sup>2</sup>		

Verdict Trio	Soil Texture <sup>3</sup>			
Use Rate (fl ozs/A)	Coarse Soils with ≤ 2.0% Organic Matter	All Other Soils		
5.5	30	14*		
8.5	30	30		
11	44	30		

<sup>1</sup> Refer to other product's label and follow the most restrictive interval.

<sup>2</sup> Group 14/Group E herbicides including sulfentrazone or flumioxazin <sup>3</sup> Refer to **Table 3** for definition of soil texture groups.

\* Interval for reduced-till and no-till soybean only. Interval for conventional-till soybean is 30 days.

# **Crop-specific Restrictions**

- **DO NOT** apply **Verdict Trio** when soybean has reached the cracking stage or after emergence or severe crop injury will occur.
- **DO NOT** apply more than a maximum cumulative amount of 21 fl ozs/A of **Verdict Trio** per year.
- Maximum number of applications per year: 2
- Sequential applications **MUST** be separated by at least 30 days.
- If additional saflufenacil is applied from other product sources, **DO NOT** apply more than the following maximum cumulative amount of saflufenacil per year in soybean: 0.089 lb ai/A on all soils.
- If additional dimethenamid-P is applied from other product sources, **DO NOT** apply more than the following maximum cumulative amount of dimethenamid-P per year in soybean: 1.125 lbs ai/A on all soils.

- If additional pyroxasulfone is applied from other product sources, **DO NOT** apply more than the following maximum cumulative amounts of pyroxasulfone per year in soybean: 0.112 lb ai/A on coarse soils, 0.159 lb ai/A on medium soils, and 0.186 lb ai/A on fine soils.
- **DO NOT** apply **Verdict Trio** within 30 days of planting where an at-planting application of an organophosphate or carbamate insecticide(s) is planned and/or has occurred because severe injury may result.
- DO NOT graze or feed forage, hay, or straw to livestock.
- There is no required (preharvest) interval between a preplant or preemergence application of **Verdict Trio** and the harvest of soybean grain.
- Always use the most restrictive preplant interval of all inclusive herbicides when applying **Verdict Trio** as part of a tank mix.

# **Crop-specific Precautions**

- Ensure the seed row is sufficiently covered with soil to avoid washing and concentration of the herbicide in the seed zone.
- Other **Group 14/Group E** herbicides labeled for postemergence application in soybean may be used 14 days or more after soybean emergence. Refer to other products' labels for use directions.

# **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.

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BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



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