SED STA	U.S. ENVIRONMENTAL PRÓTECTION AGENCY	EPA Reg.	Date of Issuance:		
WHOM THE ALL PROTECTION	Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460	Number: 7969-365	09/15/2014		
	NOTICE OF PESTICIDE:	Term of Issuance:	Term of Issuance: Unconditional		
<u>x</u> Registration <u>Reregistration</u> (under FIFRA, as amended)		Name of Pesticide	Name of Pesticide Product: Optill Z Powered by Kixor Herbicide		
BASF Corporat 26 Davis Drive	•				
	g differing in substance from that accepted in connection with the label in commerce. In any correspondence on this product al				
the environment, the Adm of any name in connectio its use if it has been cove This produ 1. Subm Agence 2. Make	ation is in no way to be construed as an endorsement or recomministrator, on his motion, may at any time suspend or cancel the in with the registration of a product under this Act is not to be corred by others. Auct is registered in accordance with FIFRA section registration registration registration registration registration registration registration for the following label revision(s): wise "EPA Reg. No 7969-XXX" to "EPA Reg.	registration of a pesticide in ac instrued as giving the registrant tion 3(c)(5) provided th eview/reregistration of submit data.	cordance with the Act. The acceptance a right to exclusive use of the name or to at you:		
	sure that the EPA establishment number is also		ed label.		
b. Ass	sure that the EPA establishment number is also CFR 156.10(6), submit one copy of your final	added to the final prin			
b. Ass 3. Per 40 shipme If these conditions sec.6(e). Your rele label is enclosed fo file. If you have an	sure that the EPA establishment number is also CFR 156.10(6), submit one copy of your final ent. s are not complied with, the registration will be ease for shipment of the product constitutes acc or your records. The basic formulation (dated 5 ny questions regarding this notice, please conta	added to the final print printed labeling before subject to cancellation ceptance of these condi 5-5-2014) is acceptable	you release the product for in accordance with FIFRA tions. A stamped copy of the and will be added to your		
b. Ass 3. Per 40 shipme If these conditions sec.6(e). Your rele label is enclosed for	sure that the EPA establishment number is also CFR 156.10(6), submit one copy of your final ent. s are not complied with, the registration will be ease for shipment of the product constitutes acc or your records. The basic formulation (dated 5 by questions regarding this notice, please conta <u>pepa.gov</u> .	added to the final print printed labeling before subject to cancellation ceptance of these condi 5-5-2014) is acceptable	you release the product for in accordance with FIFRA tions. A stamped copy of the and will be added to your		



The Chemical Company

Group 2 14 15 Herbicide

Optill[®] Z Powered by Kixor[®] Herbicide

Active Ingredients (Co-pack Component O): 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
imazethapyr: (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5- oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid
Other Ingredients:
Total:
Active Ingredient (Co-pack Component Z): pyroxasulfone: 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)- 1 <i>H</i> -pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole
Other Ingredients: 15.0% Total: 100.0% Contains 0.85 pound of pyroxasulfone per pound formulated as a water-dispersible granule (WG)
EPA Reg. No. 7969-XXX 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: 2 x 5 pounds (Co-pack Component O) 2 x 5 pounds (Co-pack Component Z)

BASF Corporation 26 Davis Drive, Research Triangle Park, NC 27709

ACCEPTED

09/15/2014

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

7969-365

FIRST AID			
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 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 to an unconscious person. 		
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. 		
lf 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		

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 at 1-800-832-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. 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
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, natural rubber \geq 14 mils, polyethylene, polyvinyl chloride \geq 14 mils, or viton \geq 14 mils
- Shoes plus socks
- Protective eyewear, face shield, goggles, or safety glasses

For aerial application, mixers and loaders must also wear a PF5 respirator.

User Safety Requirements

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. 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.

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.

DO NOT discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. **DO NOT** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Groundwater Advisory. This product has 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.

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 weeks after application. A level, wellmaintained buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of these chemicals and pyroxasulfone's degradation product, [5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1Hpyrazol-4-yl]methanesulfonic acid (M1), from runoff water and sediment. Runoff of this product will be reduced by avoiding application when rainfall is forecast to occur within 48 hours.

Proper Handling Instructions. This product may not be mixed or loaded 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 properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad must be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad.

Surface water shall not be allowed to either flow over or from the pad, which means the pad must be selfcontained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacity **DOES NOT** apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

This product must be used in a manner which will prevent back-siphoning in wells, spills, or improper disposal of excess pesticide spray mixture.

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.

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 1-800-447-3813 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 prior to 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 labeling must be in the possession of the user at time of herbicide application.

Read the entire label. Use strictly in accordance with precautionary statements and directions and with applicable state and federal regulations.

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 precautions and limitations in this label and the labels of products used in combination with **Optill® Z herbicide**. The use of **Optill Z** not consistent with this label can result in injury to crops, animals or persons, poor weed control, and/or illegal residues. Keep containers closed to avoid spills and contamination.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed.

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.

The separate formulated co-pack components **O** and **Z** of **Optill Z** are not for individual sale or use.

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
- Chemical-resistant gloves, such as natural rubber ≥ 14 mils
- · Shoes plus socks
- Protective evewear

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. **DO NOT** store this product under wet conditions. 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 may 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 \leq 50 pounds) as follows: Empty the remaining contents of both chambers into application equipment or a mix tank and ensure to drain the liquid chamber for 10 seconds after the flow begins to drip. Fill both chambers of 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.

Pressure rinse as follows: Empty the remaining contents of all containers into application equipment or mix tank. Hold containers 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 containers and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

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

Optill® Z herbicide is a co-pack of two separate formulated components (**O** and **Z**) defined as follows, which are intended to be applied together as a tank mix application.

- 1. Co-pack component **O**: two containers each weighing 80 ounces (5 pounds) of a saflufenacil and imazethapyr product formulated as a water-dispersible granule.
- Co-pack component Z: two containers weighing 80 ounces (5 pounds) of a pyroxasulfone product formulated as a water-dispersible granule.

Optill Z is packaged as co-pack with components **O** and **Z** together in a carton (containing two 5-pound containers of the component **O** and two 5-pound containers of component **Z**) that contains enough saflufenacil, imazethapyr, and pyroxasulfone to treat 80 acres.

Optill Z provides both contact burndown and residual preemergence control of annual grass weeds and annual broadleaf weeds (including biotypes resistant to ACCase inhibitors, ALS inhibitors, triazine herbicides, and glyphosate) (refer to **Table 1** for lists of weeds controlled) in soybean. Refer to **Crop-specific Information** section for instructions on herbicide tank mixtures.

Make burndown applications of **Optill Z** when weeds are small and actively growing. An adjuvant is required with **Optill Z** for optimum burndown activity (refer to **Additives** section for details). 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. Periods of dry weather following application of **Optill Z** may reduce herbicidal effectiveness. Residual preemergence applications of **Optill Z** must be activated by at least 1/2 inch of rainfall or sprinkler irrigation prior to weed seedling emergence. When **Optill Z** is not activated, a labeled postemergence herbicide or cultivation may be needed to control weed escapes.

Table 1. Weeds Controlled by Optill® Z herbicide

· ·		Level of Control C = Control S = Suppression		Maximum Height or Diameter (inches)
Common Name	Scientific Name	Residual Application	Burndown Application	Burndown Application
Broadleaf Weeds				274 - A.S.
Alligatorweed	Alternanthera philoxeroides		C	. 4
Amaranth, Palmer ¹	Amaranthus palmeri	С	С	6
Amaranth, Powell	Amaranthus powellii	С	С	6
Anoda, spurred	Anoda cristata	· C	С	2
Artichoke, Jerusalem	Helianthus tuberosus		С	8
Bedstraw, catchweed	Galium aparine		С	3
Beets, wild	Beta vulgaris	S	С	5
Beggarticks, hairy	Bidens pilosa		C	6
Beggarweed, Florida	Desmodium tortuosum		C	6 ,
Bindweed, field	Convolvulus arvensis		S²	6
Buckwheat, wild	Polygonum convolvulus	C	С	3
Buffalobur	Solanum rostratum	S	S	3
Canola, volunteer (rapeseed)	Brassica spp.	С	С	6
Carpetweed	Mollugo verticillata	С	С	6
Chickweed, common	Stellaria media	S	С	3
Chickweed, mouse-ear	Cerastium vulgatum		С	3
Cocklebur, common	Xanthium strumarium	S	С	8
Cowcockle	Vaccaria pyramidata		С	4
Cress, hoary	Cardaria draba		S	2
Dandelion	Taraxacum officinale .		S²	6
Eveningprimrose, cutleaf	Oenothera laciniata		С	4
alseflax, smallseed	Camelina microcarpa		С	4
-ilaree, redstem	Erodium cicutarium		S	3
-ilaree, whitestem	Erodium moschatum		S ·	3
-leabane, hairy	Conyza bonariensis	S	C	6
-leabane, rough	Erigeron asper	S	С	3
Flixweed	Descurainia sophia	_	С	6
Galinsoga	Galinsoga parviflora	C	_	
Goosefoot, nettleleaf	Chenopodium murale		С	3
Groundcherry, cutleaf	Physalis angulata		C .	6
Groundsel, common	Senecio vulgaris	S	С	4
Henbit	Lamium amplexicaule	S	S	3
Horseweed (marestail)	Conyza canadensis	S	C	6
Jimsonweed	Datura stramonium	S	C	3
Knotweed, prostrate	Polygonum aviculare	· · · · · · · · · · · · · · · · · · ·	C	3

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Table 1. Weeds Controlled by Optill® Z herbicide (continued)

	· · ·	Level of Control C = Control S = Suppression		Maximum Height or Diameter (inches)	
Common Name	Scientific Name	Residual Application	Burndown Application	Burndown Application	
Broadleaf Weeds (continued)					
Kochia ¹	Kochia scoparia	C	C	1 to 3 Suppression of button/puffball stage at < 1-inch tall	
Ladysthumb	Polygonum persicaria	С	C	6	
Lambsquarters, common	Chenopodium album	С	C	6	
Lambsquarters, narrowleaf	Chenopodium pratericola	S	С	6	
Lettuce, miner's	Claytonia perfoliata		C.	3	
Lettuce, prickly	Lactuca serriola		C	6	
Mallow, common	Malva neglecta		С	6	
Mallow, little (cheeseweed)	Malva parviflora		С	6	
Mallow, Venice	Hibiscus trionum	S	Ċ	6	
Marestail (horseweed)	Conyza canadensis	S	С	6	
Marshelder	Iva xanthifolia	С	· C	4	
Milkweed, common	Asclepias syriaca		С	3	
Morningglory, entireleaf	Ipomoea hederacea var. integriuscula	S	С	6	
Morningglory, ivyleaf	Ipomoea hederacea	S	С	6	
Morningglory, palmleaf	Ipomoea wrightii	S	С	6	
Morningglory, pitted	Ipomoea lacunosa	S	С	6	
Morningglory, smallflower	Jacquemontia tamnifolia	C	C	3	
Morningglory, tall	Ipomoea purpurea	S	С	6	
Mustard, black	Brassica nigra	C	С	6	
Mustard, tumble	Sisymbrium altissimum	_	C ,	6	
Mustard, wild	Sinapis arvensis	С	C	6	
Nettle, burning	Urtica urens		C ·	4	
Nightshade, black	Solanum nigrum	C	C	6	
Nightshade, cutleaf	Solanum triflorum	, S	С	6	
Nightshade, Eastern black	Solanum ptycanthum	С	С	6	
Nightshade, hairy	Solanum saccharoides	С	С	6	
Pennycress, field	Thlaspi arvense		С	6	
Pepperweed, field	Lepidium campestre	_	С	3	
Pepperweed, Virginia	Lepidium virginicum	<u> </u>	С	3	
Pigweed, prostrate	Amaranthus blitoides	С	С	. 6	
Pigweed, redroot	Amaranthus retroflexus	С	С	.6	
Pigweed, smooth	Amaranthus hybridus	С	С	6	
Pigweed, spiny	Amaranthus spinosus	C	C :	6	
Poinsettia, wild	Euphorbia heterophylla	С			
Puncturevine	Tribulus terrestris	С	C	6	
Purslane, common	Portulaca oleracea	C .	C	3	
Pusley, Florida	Richardia scabra	C	S	3	

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Table 1. Weeds Controlled by Optill® Z herbicide (continued)

· ·		Level of Control C = Control S = Suppression		Maximum Height or Diameter (inches)
Common Name	Scientific Name	Residual Application	Burndown Application	Burndown Application
Broadleaf Weeds (continued)				
Radish, wild	Raphanus raphanistrum	S	S .	4
Ragweed, common ¹	Ambrosia artemisiifolia	S	С	6
Ragweed, giant ¹	Ambrosia trifida	S	С	6
Redmaids	Calandrinia ciliata		C	3
Rocket, London	Sisymbrium irio		С	4
Rocket, yellow	Barbarea vulgaris		С	3
Sesbania, hemp	Sesbania exaltata	_	С	4
Shepherd's-purse	Capsella bursa-pastoris	С	С	6
Sida, prickly	Sida spinosa	С	С	6
Smartweed, Pennsylvania	Polygonum pensylvanicum	С	С	6
Smartweed, swamp (seedling)	Polygonum coccineum		С	. 3
Sowthistle, annual	Sonchus oleraceus	<u> </u>	C.	6
Sowthistle, spiny	Sonchus asper		C ,	6
Spurge, petty	Euphorbia peplus		С	3
Spurge, prostrate	Euphorbia supina	·······	S	3
Spurge, spotted	Euphorbia maculata	Ċ	S	. 3
Spurry, corn	Spergula arvensis	`—	С	3
Starbur, bristly	Acanthospermum hispidum		С	2
Sunflower, common	Helianthus annuus	S	С	6
Swinecress	Coronopus didymus	_	С	3
Tansymustard, green	Descurainia incana		С	3
Tansymustard, pinnate	Descurainia pinnata	<u> </u>	С	6
Thistle, Canada	Cirsium arvense		S²	6
Thistle, Russian	Salsola kali	С	С	3 .
Velvetleaf	Abutilon theophrasti	S	C .	6
Watercress, creeping	Coronopus squamatus	_	С	2
Watercress	Nasturtium officinale		С	3
Waterhemp ¹	Amaranthus tuberculatus	С	C	6
Willowweed	Epilobium adenocaulon		С	3

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· · · · · · · · · · · · · · · · · · ·		Level of Control C = Control S = Suppression		Maximum Height or Diameter (inches)
Common Name	Scientific Name	Residual Application	Burndown Application	Burndown Application
Grass Weeds				
Barley, volunteer	Hordeum vulgare	S	S	2
Barnyardgrass	Echinochloa crus-galli	С	S	3
Canarygrass	Phalaris canariensis	С	· ,	
Canarygrass, littleseed	Phalaris minor	S	S	2
Cheat	Bromus secalinus	S ·	*	
Crabgràss, large	Digitaria sanguinalis	С	S	3
Crabgrass, smooth	Digitaria ischaemum	С	S	· 3
Crowsfootgrass	Dactyloctenium aegyptium	С	· · · · · · · · · · · · · · · · · · ·	
Cupgrass, Southeastern	Eriochloa acuminata	С		_
Cupgrass, woolly	Eriochloa villosa	S	С	3
Foxtail, giant	Setaria faberi	С	C ·	6
Foxtail, green	Setaria viridis	С	С	3
Foxtail, yellow	Setaria pumila	С	С	3
Goosegrass	Eleusine indica	Ċ		
Johnsongrass (rhizome)	Sorghum vulgare	- \	S	6
Johnsongrass (seedling)	Sorghum vulgare	С	С	. 8
Millet, wild proso	Panicum miliaceum	S	S	3
Oats, volunteer	Avena sativa	S	S	2
Oats, wild	Avena fatua	S	S	3
Panicum, fall	Panicum dichotomiflorum	С		
Panicum,Texas	Panicum texanum	S	· ,	
Rice, red	Oryza rufipogon	С	С	3
Ryegrass, Italian	Lolium perenne spp. multiflorum	С	<u> </u>	
Ryegrass, rigid	Lolium rigidum	С		_
Sandbur	Cenchrus spp.	S	· · · · · · · · · · · · · · · · · · ·	
Shattercane	Sorghum bicolor	S	С	8
Signalgrass, broadleaf	Brachiaria platyphylla	С	С	. 8
Wheat, volunteer	Triticum spp.	S.	S	2
Sorghum, almum	Sorghum almum	S	C	3
Sedge				
Nutsedge, yellow	Cyperus esculentus	S ²	S ²	3
		<u>.</u>		

Table 1. Weeds Controlled by Optill® Z herbicide (continued)

¹ Populations of noted weeds exist that are known to be resistant to **Group 2/Group B**, **Group 14/Group E**, and/or **Group 9/Group G** (e.g. glyphosate) herbicides. **Optill Z** may not provide full-season control of these herbicide-resistant biotypes. See the **Resistance Management** section for practices to manage and minimize the impact of resistant weeds (e.g. tank mix or alternate with other herbicide modes of action, crop rotation, and mechanical control). ² Control of seedling stage and suppression of perennial growth stage

Mode of Action

Optill® Z herbicide contains three herbicide active ingredients. Saflufenacil is a potent inhibitor of protoporphyrinogen-oxidase, belonging to herbicide mode-of-action **Group 14** (WSSA)/**Group E** (HRAC). Imazethapyr is a potent inhibitor of acetohydroxyacid synthase, belonging to herbicide mode-of-action **Group 2** (WSSA)/**Group B** (HRAC). Pyroxasulfone is a

potent inhibitor of very long chain fatty acid (VLCFA) synthesis, belonging to the mode-of-action

Group 15 (WSSA)/Group K3 (HRAC). The co-pack component O active ingredients of Optill Z are rapidly absorbed by roots and foliage. Plant death is the result of membrane damage and inhibition of the production of branched chain amino acids. Under active growing conditions, susceptible emerged weeds usually develop chlorotic and necrotic injury symptoms within hours and die within a few days. Susceptible emerging weed seedlings will usually die as they reach the soil surface or shortly after emergence. The co-pack component Z active ingredient of Optill Z is absorbed by roots and shoots of weeds following germination. Plant death is the result of very long chain fatty acid synthesis inhibition; susceptible weeds typically do not emerge.

Resistance Management

While weed resistance to protoporphyrinogen-oxidaseinhibiting herbicide is relatively infrequent, populations of resistant biotypes to protoporphyrinogen-oxidase or acetohydroxyacid-synthase-inhibiting herbicides are known to exist. Weed resistance to VLCFA synthesis-inhibiting herbicides is rare. Resistance management practices include:

- 1. Following labeled application rate and weed growth stage instructions
- 2. Avoiding repeated applications of herbicides with the same mode of action
- Utilizing tank mixes and sequential applications with other effective herbicides possessing different modes of action
- Using crop rotation so crop competition, tillage or herbicides with alternative modes of action can be used to control weed escapes

Crop Tolerance

Soybeans are tolerant to **Optill Z** when applied according to label directions as a preplant to preemergence treatment and under normal environmental conditions. Crop injury may occur under stressful growing conditions (e.g. seedling disease, extreme hot or cold weather, excessive moisture, high soil pH, high soil salt concentration or drought).

Severe crop injury will result if **Optill Z** is applied postemergence (over the top) to soybeans.

Application Instructions

Apply **Optill Z** prior to crop emergence only.

Application Methods and Equipment

Optill Z may be applied by either ground or air. **DO NOT** apply through any type of irrigation system.

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. Equipment should be adjusted to maintain continuous agitation during spraying with good mechanical or bypass agitation. Avoid overlaps that will increase rates above the use rates specified in this label.

Optill Z may only be applied using water as the spray carrier.

Spray Mix Preparation Advisory

Always pre-dissolve both co-pack components of **Optill Z** before adding it into the spray tank. When dissolving co-pack components of **Optill Z** for a spray mix, use a minimum of 4 gallons water per co-pack component container in an external container (e.g. 5-gallon bucket) or in the sprayer induction system with constant agitation. **DO NOT** pour co-pack components of **Optill Z** straight into the sprayer inductor system without minimum water and agitation.

Aerial Application Requirements

Water Volume. Use 3 or more gallons of water per acre.

The following measures must be followed to reduce the potential of spray drift to nontarget areas from aerial applications:

- 1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the fixed wingspan or 90% of rotor blade diameter.
- Use low-drift nozzles such as straight-stream nozzles (D-8 or larger). **DO NOT** use nozzles producing a mist droplet spray.
- 3. Nozzles must always point backward parallel with the airstream and never be pointed downward more than 45 degrees.
- 4. Without compromising aircraft safety, applications should be made at a height of 10 feet or less above the crop canopy or tallest plants.
- 5. **DO NOT** apply during periods of temperature inversions or stable atmospheric conditions.
- 6. Avoid potential adverse effects to nontarget areas by maintaining a **30-feet buffer** between the point of direct application and the **closest downwind edge** of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas, and shrub lands).

Ground Application Requirements

Water Volume. Use 5 or more gallons of water per treated acre for weed control applications. Thorough spray coverage is required for control of emerged broadleaf weeds. High populations and/or variations in size can prevent adequate spray coverage. Controlling fall-germinated weeds in the spring (e.g. horseweed/marestail) will also require 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.

The following measures must be followed to reduce the potential of spray drift to nontarget areas from ground applications:

- Apply this product using nozzles which deliver mediumto-coarse spray droplets as defined by ASAE standard S-572 and as shown in nozzle manufacturer's catalogs. Flat-fan nozzles are recommended for burndown applications while flood-jet type nozzles are recommended for residual soil surface applications.
 Nozzles that deliver coarse spray droplets may be used to reduce spray drift provided spray volume per acre (GPA) is increased to maintain coverage of target (i.e. weeds or soil surface). DO NOT use nozzles that produce fine (e.g. cone) spray droplets.
- Apply this product only when the potential for drift to adjacent nontarget areas is minimal (e.g. when the wind is **10 MPH or less and is blowing away** from sensitive areas). **DO NOT** apply during periods of temperature inversions or stable atmospheric conditions.
- 3. Avoid potential adverse effects to nontarget areas by maintaining a **13-feet buffer** between the application area and the **closest downwind edge** of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas, and shrub lands).

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.

Spray Drift Management

It is the responsibility of the applicator to avoid spray drift at the application site, especially onto nontarget areas. 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.

The applicator must be familiar with and take into account the information covered in the following spray drift reduction advisory information.

Controlling Droplet Size. The most effective way to reduce drift potential is to apply the largest droplets that provide sufficient coverage and control.

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 recommended 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 Type. Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets.

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. air-craft, 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. If applying at wind speeds less than 3 mph, the applicator must determine if:

- 1. Conditions of temperature inversion exist, or
- 2. Stable atmospheric conditions exist at or below nozzle height.

DO NOT make applications into areas of temperature inversions or stable atmospheric conditions.

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

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.

Additives

For optimum burndown activity with **Optill® Z herbicide**, an adjuvant system must be used that includes the following:

Adjuvant	Rate
methylated seed oil' (MSO)	1 gal/100 gals ² (1% v/v)
PLUS	PLUS
ammonium sulfate (AMS)	8.5 to 17 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)

 ¹MSO-based adjuvant **MUST** contain at least 60% methylated seed oil. Poor performance may occur with adjuvants containing less than 60% methylated seed oil.
 ²DO NOT use less than 1 pint/A of MSO with low-volume (< 12.5 gallons per acre) aerial or ground applications.

BASF highly recommends the use of AMS fertilizer when mixing **Optill® Z herbicide** 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

Optill Z may be tank mixed with one or more registered herbicide products according to the specific tank mixing instructions in this label and respective product labels. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Always follow the most restrictive label use directions. Refer to **Crop-specific Information** section for details.

Tank mixtures with contact herbicides (e.g. carfentrazone, paraquat) may reduce the burndown activity of **Optill Z**.

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.
- Add components in the sequence indicated in the mixing order using 2 teaspoons for each pound or 1 teaspoon for each pint of label 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 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

The mixing of **Optill Z** and other products in the spray water must be conducted as follows:

- 1. Water Fill tank 1/2 to 3/4 full with clean water and start agitation.
- 2. Agitation Maintain agitation throughout mixing.
- 3. **Inductor** If an inductor is used, rinse it thoroughly after each component has been added.

- 4. 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.
- 5. **Water-soluble additives** (including dry and liquid fertilizers such as ammonium sulfate or urea ammonium nitrate)
- Water-dispersible products (including Dry components of Optill Z and others, such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
- 7. Water-soluble products (such as glyphosate)
- 8. **Emulsifiable concentrates** (including methylated seed oil adjuvants)
- 9. Remaining quantity of water

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

Application Restrictions

- DO NOT apply Optill Z after crop emergence or severe crop injury will occur.
- DO NOT contaminate irrigation ditches or water used for domestic purposes.
- **DO NOT** apply **Optill Z** through any type of irrigation system (e.g. chemigation).
- Only rotational crops harvested at maturity may be used for feed or food.
- Optill Z is not for sale, distribution, or use in Nassau and Suffolk counties in New York State, or in California.

Use Precautions

- Maximum seasonal use rate Refer to the Crop-specific Information section for maximum cropping seasonal application use rates. A cropping season is defined as the period following harvest of the preceding crop through the harvest of the planned or current crop.
- Rainfastness Optill Z is rainfast 1 hour after application. Burndown activity may be reduced if rain or irrigation occurs within 1 hour of application.
- Full-rate application of products containing chlorimuron ethyl, chloransulam-methyl, flumetsulam, or imazaquin in the same year as **Optill Z** may increase the risk of injury to sensitive follow crops. Consult the respective labels of these products for recommended uses of these products in combinations.
- When organophosphate or carbamate insecticides are tank mixed with **Optill Z**, temporary injury may result to the treated crops.

Rotational Crop Restrictions, Crop Rotation, and Emergency Replanting Intervals

Use **Table 2** and its exceptions in the paragraphs following the table to determine the proper interval between **Optill® Z herbicide** application and rotational crop planting. This interval can be used to determine the acceptable planting interval for rotational crops as well as replanting after crop failure (because of environmental factors such as drought, frost or hail, etc.). Be sure to determine the rotational crop interval for tank mix products and utilize the most restrictive interval of all products applied.

Table 2. Rotational Crop Planting and EmergencyReplanting Intervals after an Application of Optill Z

Crop	Rotational Crop Interval (months after application)			
Clearfield [®] corn	. 0			
Soybeans	0 to 1ª			
Clearfield® wheat Peanuts Wheat	4			
Field peas (dry) Lentil	6			
Field corn Field corn grown for seed	8.5			
Clearfield® sunflower	9.5			
Alfalfa	10			
Edible peas, succulent edible beans, and other edible dry beans Small (cereal) grains (barley, buckwheat, millet, rye)	11			
Clearfield® canola Rice	12			
Clover Cotton Lettuce Oats Popcorn Safflower Sorghum Sunflower Sweet corn Tobacco	18			
Flax Potatoes	26			
Other crops	40°			

^a The planting interval for this crop and rates are 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-textured soils with organic matter less than or equal to 2.0%.

^b Following 40 months after an **Optill Z** application and before planting any crop not listed elsewhere in the **Rotational Crop Restrictions, Crop Rotation, and** **Emergency Replanting Intervals**, a successful field bioassay must be completed. The field bioassay consists of a test strip of the intended rotational crop planted across the previously treated field and grown to maturity. The test strip should include low areas and knolls and include variations in soil such as type and pH. If no crop injury is evident in the test strip, the intended rotational crop may be planted the following year. Sugar beet production can be reduced when grown in soil conditions with a pH less than 6.5. If the field is limed to adjust pH prior to planting rotational crops not listed in **Rotational Crop Restrictions, Crop Rotation, and Emergency Replanting Intervals**, apply the lime at least 12 months prior to planting the rotational crop.

Use of **Optill Z** in accordance with label directions is expected to result in normal growth of rotational crops in most situations. However, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

Exceptions to Crop Rotation Restrictions

Corn Inbred Lines

Corn inbred seed lines may be planted the year following an application of **Optill Z**. Growers are directed to contact the seed company for information and recommendations regarding the planting of corn grown for seed in fields treated with **Optill Z** the previous year. Because growing conditions, environmental conditions, and grower practices are beyond the control of BASF, all risks and consequences associated with planting seed corn inbreds into fields treated previously with **Optill Z** shall be assumed by the user.

Sweet Corn and Popcorn Varieties (Illinois, Indiana, Iowa, Minnesota, Ohio, Tennessee, and Wisconsin only)

Sweet corn and popcorn varieties may be planted the year following an application of **Optill Z**. Some sweet corn and popcorn varieties may be injured when planted at less than 18 months following an application of Optill Z. Before planting sweet corn for processing, contact the processor company for information and recommendations regarding the tolerance of sweet corn varieties planned for fields treated with Optill Z the previous year. DO NOT plant fresh market sweet corn varieties prior to 18 months after Optill Z use. Before planting popcorn, contact the popcorn company for information and recommendations regarding the tolerance of popcorn varieties planned for fields treated with Optill Z the previous year. Because growing conditions, environmental conditions, and grower practices are beyond the control of BASF, all risks and consequences associated with planting sweet corn or popcorn varieties into fields treated previously with Optill Z shall be assumed by the user. Stunting and maturity-delay or other adverse effects may result when sweet corn or popcorn are planted following Optill Z use.

Certain Vegetable Crops

(Alabama, Delaware, Florida, Georgia, Indiana, Kentucky, Maryland, New Jersey, North Carolina, Pennsylvania, South Carolina, and Virginia only) The following crops may be planted 18 months following the last application of **Optill® Z herbicide**: Bahiagrass, cabbage, cantaloupe, cucumber, Irish potato, onion, sweet pepper transplants, sweet potato transplants, tomato transplants and watermelon.

Field Corn and Field Corn Grown for Seed (Arizona, Hawaii, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming)

Plant 9.5 months after **Optill Z** application.

Crop-specific Information

This section provides use directions for **Optill Z** in soybean. Be sure to read about product information, mixing, application, weeds controlled and adjuvant instructions in preceding sections of the label. Read and follow tank mix product labels for restrictions, precautions, instructions and rotational crop restrictions.

Depending on specific application directions, **Optill Z** may be applied for burndown control of emerged weeds and/or residual control of germinating weeds (refer to **Table 1** for list of weeds controlled) before planting (preplant/preseed) or after planting but before crop emergence. Depending on the time between **Optill Z** application and planting, a followup in-crop herbicide application may be needed for complete weed control throughout the growing season.

Thorough spray coverage is required for control of emerged broadleaf weeds. High populations and/or variations in size can prevent adequate spray coverage. Controlling fall-germinated weeds in the spring (e.g. horseweed/marestail) will also require 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.

Soybean.

Optill Z may be applied in the fall and/or in the spring as a preplant or preemergence burndown application in reduced or no-till soybean for weed control (refer to **Table 1** for list of weeds controlled). An adjuvant system (refer to **Additives** section for details) is required for optimum burndown activity.

Application Rate

Optill Z is a co-pack of two separate formulated components (**O** and **Z**) defined as follows, which are intended to be applied together as a tank mix application.

1. Co-pack component **O**: two containers each weighing 80 ounces (5 pounds) of a formulated water-dispersible granule.

 Co-pack component Z: two containers weighing 80 ounces (5 pounds) of a pyroxasulfone product formulated as a water-dispersible granule.

The entire contents of the **Optill Z** carton will treat 80 acres.

If the intended treatment area is less than 80 acres, apply a rate ratio equivalent to 2 ounces of the co-pack component **O** with 2 ounces of the co-pack component **Z** on a per acre basis. **DO NOT** apply to soybean using a different ratio of the co-pack components **O** and **Z** on a per acre basis.

Application Timing

Fall Application

Apply **Optill Z** for burndown and/or residual weed control after the prior crop is harvested. Applications must be made prior to first killing frost. Fall applications can be made to all soil types.

Spring Application

Apply **Optill Z** early preplant through preemergence for burndown and/or residual weed control prior to crop emergence. A sequential application of **Sharpen[®] herbicide** at 1.0 and 2.0 fl ozs/A may be made with a minimum of 30 and 60 days between applications, respectively.

Soybean Planting Interval

Depending on soil texture and organic matter, an interval between **Optill Z** application and soybean planting may be required (see **Table 3**). These intervals must be observed prior to planting soybeans or crop injury may occur.

Table 3. Minimum Preplant Intervals RequiredBetween Optill Z Application and Soybean Planting

Minimum Preplant Interval by Soil Texture and Organic Matter Content (days)				
Coll Touture	Organic Matter			
Soil Texture	≤ 2.0%	> 2.0%		
Coarse (Sand, loamy sand, and sandy loam)	30	None		
Medium (Silt, silt loam, loam, and sandy clay loam)	None	None		
Fine (Sandy clay, silty clay, silty clay loam, clay loam, and clay)	None	None		

Crop-specific Restrictions and Limitations

- **DO NOT** apply more than 2.0 ozs/A of the co-pack component **O** (0.022 lb ai/A of saflufenacil and 0.063 lb ae/A imazethapyr) in a single application or cumulatively per cropping season.
- **DO NOT** apply more than a maximum cumulative amount of 0.089 lb ai/A of saflufenacil per cropping season in soybean from all product sources.
- **DO NOT** apply more than a maximum cumulative amount of 0.112 lb ai/A of pyroxasulfone on coarse soils per cropping season in soybean from all product sources.
- **DO NOT** apply more than a maximum cumulative amount of 0.186 lb ai/A of pyroxasulfone on all soils other than coarse per cropping season in soybean from all product sources.
- DO NOT apply Optill[®] Z herbicide to soybean in North Dakota and Minnesota north of Highway #210.
- **DO NOT** apply when soybeans have reached the cracking stage or after emergence because severe crop injury will result.
- **DO NOT** apply **Optill Z** with other products containing **Group 14/Group E** herbicides (such as sulfentrazone or flumioxazin) as a tank mix or sequential application within 30 days of planting because crop injury may result.
- When applying Optill Z in a sequential spring application with other products containing Group 14/Group E herbicides, separate applications by at least 44 days.
- **Group 14/Group E** herbicides labeled for postemergence applications in soybean may be used 14 days after soybean emergence.
- DO NOT graze or feed treated soybean forage, hay or straw to livestock.
- There must be a **Preharvest Interval** of at least 85 days between an application of **Optill Z** and soybean grain harvest.
- Ensure that the seed row is sufficiently covered with soil to avoid washing and concentration of the herbicide in the seed zone.
- Always use the most restrictive preplant interval of all inclusive herbicides when applying **Optill Z** as part of a tank mix.
- The use of **Optill Z** may result in temporary growth suppression in soybean if extreme conditions of high rainfall and extended periods of water-saturated soil occur during soybean germination or early seedling development.

Tank Mixtures

Broad-spectrum burndown or enhanced residual control of additional grasses or broadleaf weeds will require a tank mix. **Optill Z** may be tank mixed with one or more of, but not limited to, the following herbicide products:

- Clarity® herbicide
- Outlook[®] herbicide
- Prowl® H₂O herbicide
- Zidua[®] herbicide
- glyphosate (e.g. Roundup® herbicide)

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.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF. 1108

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BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



The Chemical Company



The Chemical Company

Optill Z Powered by Kixor® Herbicide

Group

2

EPA Est. No.

Active Ingredients (Co-pack Component O): saflufenacil: N'-[2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-(trifluoromethyl)-3,6dihydro-1(2H)-pyrimidinyl)benzoyl]-N-isopropyl-N-methylsulfamide 17.8% imazethapyr: (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-

Other Ingredients:	<u>.32.0%</u>			
Total:				
Contains 0.178 pound active ingredient saflufenacil and 0.502 pound acid equivalent imazethapyr per pound formulated as a water-dispersible granule (WG)				

EPA Reg. No. 7969-XXX

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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.)

Precautionary Statements: Hazards to Humans and Domestic Animals. CAUTION. Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or 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 washwaters or rinsate. See leaflet for complete Environmental Hazards and Groundwater and Surface Water Advisories, FIRST AID: 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 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 in eyes: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes. Call a poison control center 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: 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 at 1-800-832-HELP (4357)

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. Pesticide Disposal: Wastes resulting from this product may 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. See leaflet for complete container disposal directions including triple rinsing and pressure rinsing instructions.

See leaflet 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).

Not for individual sale or use.

Net Contents: 2 x 5 pounds (Co-pack Component O)

BASF Corporation, 26 Davis Drive, Research Triangle Park, NC 27709



The Chemical Company

Herbicide

15

[Base decal Co-pac, Imponent Z]



Group

2 14 15 Herbicide

Active Ingredient (Co-pack Component Z): pyroxasulfone: 3-[[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-	
1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole	%
Other Ingredients:	<u>%</u>
Total:	%

EPA Reg. No. 7969-XXX 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 detaile. (If you do not understand the label, find someone to explain it to you in detail.)

Precautionary Statements: Hazards to Humans and Domestic Animals. CAUTION. Harmful if absorbed through skin, Harmful if swallowed. Avoid contact with skin, eves, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Environmental Hazards: DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment washwater or rinsate. DO NOT discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Flimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. DO NOT discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. See leaflet for complete Environmental Hazards and Groundwater and Surface Water Advisories. FIRST AID: 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 swallowed: • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by the poison control center or doctor. • DO NOT give anything to an unconscious person, if in eyes: • Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes. • 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: 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 at 1-800-832-HELP (4357).

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 only, in cool, dry, and well-ventilated area, separately from fertilizer, feed, or foodstuffs and away from other pesticides. DO NOT store this product under wet conditions. Avoid cross-contamination with other pesticides. Pesticide Disposal: Wastes resulting from the use of this product may 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. See leaflet for complete container disposal directions including triple rinsing and pressure rinsing instructions. See leaflet 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).

Not for individual sale or use.

Net Contents: 2 x 5 pounds (Co-pack Component Z)

BASF Corporation, 26 Davis Drive, Research Triangle Park, NC 27709

[Based on NVA 2014-04-482-0116]