



TWO ZONES OF DEFENSE AGAINST PROBLEMATIC WEEDS IN SOYBEANS

Zone Defense® is a blend of two PPO chemistries for early preplant or preemergence weed control. The herbicide works across all soybean production systems.

With two zones of protection extending from the soil surface to deeper soil layers, Zone Defense controls more than 75 grass and broadleaf weeds including glyphosate-, photosystem II- and ALS-resistant species. Weeds stay under control with up to 60 days of residual activity.



ZONE DEFENSE

PRODUCT FEATURES

Zone Defense delivers powerful, flexible weed management that works on your schedule. With the ability to be applied prior to crop emergence and by either ground or air, it offers unmatched convenience and adaptability for early-season planning.

Its optimized AI ratio ensures superior performance by controlling more than 75 weed species including small-seeded broadleaves like pigweed. This means cleaner fields, reduced competition and not playing catchup all season long.

For best results across most soil types, apply Zone Defense at a rate of 5.0 fl oz/A with a Group 15 product like Helmet® herbicide.

PERFORMANCE BENEFITS

- **Versatile Application Timing**
 - Can be applied flexibly before crop emergence, which offers convenience and adaptability to fit your planting schedule.
- **Broad-Spectrum Weed Control**
 - Effectively manages or suppresses more than 75 weed species, including pigweeds such as Palmer amaranth, to help ensure cleaner fields and stronger crop establishment.



Soybeans

ZONE DEFENSE

REI	12 hours
PHI	N/A
Restricted Use	No
Packaging	2 x 10 lb
EPA#	74530-91

CROPS

Soybeans

PRIMARY WEEDS CONTROLLED (OR SUPPRESSED)

Amaranth Species, American Daisy, Annual Sedge, Bristly Starbur, Carpetweed, Catchweed, Chamomile Mayweed, Chickweed, Coffee Senna, Copperleaf (hophornbeam, Virginia), Crabgrass Species, Curly Dock, Devil's Claw, Eclipta, Flixweed, Golden Crownbeard, Goosegrass, Groundcherry (clammy, cutleaf), Hairy Galinsoga, Hedgehog Cyperus, Jimsonweed, Kochia (ALS, triazine resistant), Ladysthumb, Lambsquarters, Mallow, Miners Lettuce, Morningglory Species, Mustard Species, Nightshade (black, eastern black), Nutsedge (purple, yellow), Orchardgrass, Palmer Amaranth, Panicum (fall, Texas), Pennsylvania Smartweed, Pigweed Species, Plantain Species, Poorjoe, Porophyllum, Prickly Sida/Teaweed, Purslane, Redmaids, Redstem Filaree, Red Tasselflower, Redweed, Russian Thistle, Shepherd's Purse, Sicklepod, Smellmellon, Southern Sida, Spurred Anoda, Stinkgrass, Tropic Croton, Waterhemp, Wild Poinsettia, Winged Waterprimrose, Witchgrass, Woolly Cupgrass, Yellow Toadflax

APPLICATION RATES AND GUIDELINES (FL OZ/A)

Soybeans

Fall, Spring Preplant Surface, PPI, Preemergence

% Organic Matter	SOIL TEXTURE		
	Coarse	Medium	Fine
0.5 - 2.0%	3.5 - 4.0	4.5 - 5.0	5.0
2.0 - 4.0%	4.0 - 5.0	5.0	-

Use higher rates for soils with pH less than 7.0. Use lower rates for soils with pH greater than 7.0.

Do not apply more than 6.6 fl oz/A of Zone Defense per application.

Do not apply more than 9.6 fl oz/A of Zone Defense per a 12-month period.

Coarse Sand, Loamy Sand, Sandy Loam

Medium Sandy Clay Loam, Sandy Clay, Loam, Silt Loam, Silt

Fine Silty Clay Loam, Silty Clay, Clay Loam, Clay

PRODUCT SPECIFICATIONS

Brand Name	Zone Defense®
Category	Herbicide
Active Ingredient	Sulfentrazone + Flumioxazin
Crops	Soybeans
Site of Action	Group 14 / Group 14
Formulation	Water dispersible granule
AI/Gallon	Sulfentrazone: 0.62 lb a.i./lb Flumioxazin: 0.15 lb a.i./lb
Applications	Preplant, PPI, preemergence, fall burndown, fallow seedbed
Rates	
Used Alone	3.5–6.6 fl oz/A
Tank Mix with Group 15 like Helmet at labeled rate	3.5–6.6 fl oz/A
Weed Spectrum	Broadleaf and grass species
Signal Word	Caution

USE RESTRICTIONS

Early Preplant (no-till, reduced tillage or stale seedbed)	Zone Defense must be applied in combination with a labeled burndown herbicide such as Reviton®, glyphosate, glufosinate, paraquat, and/or 2,4-D to achieve acceptable control of existing weeds. For applications 30 to 60 days before planting, apply the higher rate in the appropriate soil range using the Application Rates and Guidelines table, depending on soybean system being grown.
Preplant Incorporated	Uniformly incorporate Zone Defense alone or in a tank mix no deeper than 2 inches prior to planting. Improper incorporation can result in erratic weed control or potential crop injury.
Preemergence	Zone Defense may be applied at planting time or within 3 days after planting, but before seed emergence. It may be applied alone or in tank mix with other labeled herbicides. Seed furrow should be completely closed and seed covered, or crop injury will occur.
Non-crop/Fallow Burndown	Zone Defense, applied as part of a burndown program, may be used for residual weed control, as well as to assist in postemergence burndown of many annual and perennial weeds where soybeans will be planted directly into a stale seedbed, cover crop or in previous crop residues. Apply Zone Defense with ground equipment before planting, during planting or within 3 days after planting, but before the crop emerges.

Burndown applications prior to crop emergence require use of a COC, MSO, NIS adjuvant.

NOTE: Certain tank mix partners may be formulated with sufficient adjuvants (not requiring additional adjuvant).



For more information, visit HELMcrop.com.

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