

OSPREY™ Herbicide

A Herbicide for the Control of Annual Grass and Broadleaf Weeds in Fall- sown or Winter Wheat

ACTIVE INGREDIENT:

Mesosulfuron-Methyl* (CAS No.: 208465-21-8) 4.5%

OTHER INGREDIENTS: 95.5%

TOTAL: 100.0%

*This product is a water dispersible granule containing 4.5% of active ingredient, Mesosulfuron-Methyl, by weight.

E.P.A. Reg. No. 264-802

E.P.A. Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION

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

For **MEDICAL** And **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577
For **PRODUCT USE** Information Call 1-866-99BAYER (1-866-992-2937)

FIRST AID

IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious or convulsing person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
<p>For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577. Have the product container or label with you when calling a poison control center or doctor or going for treatment.</p>	

PRECAUTIONARY STATEMENTS

CAUTION

HAZARD TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eye or clothing. Wear protective eyewear (safety glasses).

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear: Long-sleeved shirt and long pants, socks, shoes, chemical resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, or neoprene rubber ≥ 14 mils, and protective eyewear (safety glasses). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENT

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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove Personal Protective Equipment immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate any body of water and do not apply when/where conditions could favor runoff. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

DIRECTIONS FOR USE

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Do not use this product until you have read the entire label.**

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.

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 intervals. 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 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil or water, is coveralls, socks, shoes, chemical resistant gloves such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, or neoprene rubber \geq 14 mils, and protective eye wear.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool, dry place.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

OSPREY™ Herbicide is intended for application as a foliar spray in fall-sown or winter wheat for the control of annual grass and broadleaf weeds. This product requires the addition of an adjuvant as specified in this label.

ENVIRONMENTAL AND BIOLOGICAL ACTIVITY

Best weed control is obtained when OSPREY™ is applied to young actively growing weeds in vigorously growing fall-sown or winter wheat that will shade competitive weeds. OSPREY™ Herbicide is absorbed through the foliage of plants, rapidly inhibiting growth of susceptible weeds. Visual symptoms progress from yellowing to necrosis of the growing point and eventual plant death. Abnormal environmental conditions (excess soil moisture or drought, extreme cold weather) can influence crop tolerance and herbicidal activity and may cause temporary damage to the crop or reduce levels of weed control. This may result in weed stunting, rather than weed death. However, weed competition will be greatly reduced, and should permit normal crop development. Crop response may occur when frost occurs shortly after application to actively growing wheat.

APPLICATION TIMING

Weed Application Timing

OSPREY™ Herbicide is a postemergent herbicide with best results being obtained when applications are made to young actively growing weeds. For annual (Italian) ryegrass and wild oat control, the weed application timing is from 1-leaf to the 2-tiller stage of growth. See weed tables for appropriate application timing and weed size. Treat heavy weed infestations before they become competitive with the crop.

Wheat Application Timing

Apply OSPREY™ Herbicide to fall-sown or winter wheat from emergence up to the jointing stage of wheat.

Specific Regional Directions:

- In California, apply OSPREY™ from emergence to 2 tiller wheat (Feekes 5).
- In Idaho, Oregon and Washington states, OSPREY™ Herbicide may be applied from emergence up to the 2 node stage of wheat.

SPRAY ADDITIVES

OSPREY™ Herbicide is a water dispersible granule that does not include an adjuvant. A recommended adjuvant **must** be tank mixed with OSPREY™ Herbicide according to the guidelines as described in the Mixing Order section.

Application of OSPREY™ Herbicide must include a non-ionic surfactant plus ammonium nitrogen fertilizer or a methylated seed oil or a "basic blend" type adjuvant. Use only spray grade quality urea ammonium nitrogen fertilizer (28-0-0 to 32-0-0 at 1 – 2 qt/acre) or ammonium sulfate fertilizer (21-0-0-24 at 1.5 – 3 lbs/acre). When ammonium nitrogen fertilizer is used in tank mixture with OSPREY™ Herbicide, transient leaf burn may occur.

Do not use additives that alter the spray solution below 6.0 pH. Best results are obtained at spray solution pH of 6.0 – 8.0.

Organosilicone-based surfactants or crop oil concentrate surfactants are not recommended for use with OSPREY™ Herbicide.

Non-ionic Surfactant (NIS) + Ammonium Nitrogen Fertilizer (in water carrier solutions)

Use a non-ionic surfactant at a concentration of 0.5% v/v (2 qts per 100 gallons of spray solution) with ammonium nitrogen fertilizer. At least 80% of the surfactant product must be active non-ionic surfactant. Avoid products that do not accurately define their ingredients. Products must contain only EPA-exempt ingredients (40 CFR 1001).

Use a spray grade quality urea ammonium nitrogen fertilizer (28-0-0 to 32-0-0 at 1 – 2 qt/acre) or ammonium sulfate fertilizer (21-0-0-24 at 1.5 – 3 lbs/acre).

Methylated Seed Oil (MSO)

A high quality methylated seed oil may be used in tank mixture with OSPREY™ Herbicide at a rate of 1.3 – 1.5 pt/acre, however, potential for crop response may be increased compared to non-ionic surfactant plus ammonium nitrogen fertilizer.

When a methylated seed oil is used, ammonium nitrogen or ammonium sulfate fertilizer are not recommended.

Basic Blend Adjuvants

A basic blend adjuvant is a formulated combination of a non-ionic surfactant or methylated seed oil and a nitrogen source. Apply a basic blend adjuvant at 1% v/v or 0.8 – 1.6 pt/acre depending on water carrier volume per acre with OSPREY™ Herbicide. Select the appropriate amount of basic blend adjuvant per acre depending on local conditions.

When a basic blend adjuvant is used, ammonium nitrogen or ammonium sulfate fertilizer is not recommended.

APPLICATION METHODS

Uniform, thorough spray coverage is important to achieve consistent weed control. The use of nozzles and spray pressure that deliver **MEDIUM** spray droplets as indicated in the nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572 are highly recommended for optimum spray coverage and canopy penetration. Do not use flood-jet nozzles, controlled droplet application equipment, or cone nozzles. Use of certain nozzle types as described in the **Spray Drift Management Factors** section of this label may result in reduced coverage and weed control.

Ground Application

OSPREY™ Herbicide can be applied broadcast in 10 or more gallons of water per acre. For weed control in dense weed canopies, use 15 or more gallons of water per acre. Weed infestations should be treated before they become competitive with the crop.

The use of 80-degree or 110-degree flat-fan nozzles is highly recommended for optimum spray coverage and canopy penetration. Use a spray pressure of 35 to 40 pounds per square inch (measured at the nozzle). Use screens that are 50 mesh or larger.

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

Aerial Application

Calibrate the spray equipment prior to use. OSPREY™ Herbicide should be applied in a minimum of 5 gallons of water per broadcast acre. The use of nozzles and spray pressure that deliver **MEDIUM** spray droplets as indicated in the nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572 are highly recommended for optimum spray coverage and canopy penetration. **DO NOT** use raindrop nozzles. Aerial applications with this product should be made at a maximum height of 10 feet above the crop with low drift nozzles at a maximum pressure of 40 psi. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

See the **Spray Drift Management** section of this label for additional information on proper application of OSPREY™ Herbicide.

ENDANGERED SPECIES

To avoid adverse effects on endangered dicot species, the following mitigation measures will be required where endangered species occur in Counties listed in the table below.

For ground applications, the applicator must:

1. Apply when there is sustained wind away from native plant communities, OR
2. Use low-pressure nozzles according to manufacturer's specifications that produce only coarse or very coarse droplets, OR
3. Leave 50 foot untreated buffer between treatment area and native plant communities.

For aerial applications, the applicator must:

1. Apply only when there is sustained wind away from native plant communities, OR
2. Leave 350 foot untreated buffer between treatment area and native plants.

State	County	State	County	State	County
Idaho	Idaho	Oregon	Benton	Washington	Asotin
	Lewis		Clackamas		Chelan
	Nez Perce		Lane		Cowlitz
			Linn		Lewis
Montana	Flathead		Marion		Lincoln
	Lake		Polk		Spokane
			Union		Whitman
			Wallowa		
			Washington	Wyoming	Laramie
			Yamhill		

OSPREY Herbicide is not registered for use in Minnesota.

MIXING INSTRUCTIONS

OSPREY™ Herbicide must be applied with clean and properly calibrated equipment. Prior to adding OSPREY™ Herbicide to the spray tank, ensure that the spray tank, filters and nozzles have been thoroughly cleaned.

Mixing Order

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of OSPREY™ Herbicide.
3. Continue agitation until the OSPREY™ Herbicide is fully dispersed, at least 5 minutes.
4. Once OSPREY™ Herbicide is fully dispersed, maintain agitation and continue filling tank with water. OSPREY™ Herbicide should be fully mixed with water before adding any other material.
5. As the tank is filling, add the required amount of spray adjuvant (methylated seed oil or basic blend or non-ionic surfactant) and ammonium nitrogen fertilizer. Add additional pesticide tank mix partner, if desired.
6. Continue agitation during herbicide application to ensure uniform spray coverage. If the mixture is not continuously agitated, settling may occur. If settling occurs, thoroughly re-agitate spray solution for at least 10 minutes before application. Use spray solution within 24 hours after mixing.

Application in Fluid Fertilizer Carrier Solution

OSPREY™ Herbicide provides consistent performance when applied with water as the spray carrier and a non-ionic surfactant is added to the spray solution. However, OSPREY™ Herbicide may be applied using a liquid nitrogen solution (28-0-0 or 30-0-0 or 32-0-0) as the spray carrier. The fertilizer spray solution should not exceed 15% liquid nitrogen (1.5 gallons of liquid nitrogen in 10 gallons of spray solution per acre). A non-ionic surfactant at a maximum concentration of 0.25% v/v (1 quart per 100 gallons of spray solution) is required in spray solutions containing liquid nitrogen carrier.

Due to the activity of fertilizer on the crop, temporary injury may result when liquid nitrogen is used as a spray carrier. Crop response symptoms due to the use of liquid nitrogen as a spray carrier may include discoloration, and leaf burn.

Washington, Oregon and Idaho Only - OSPREY™ Herbicide in Liquid Nitrogen Solutions as a Portion of the Spray Carrier

Apply OSPREY™ Herbicide by ground only from emergence up to the second node of crop development in spray solutions containing liquid nitrogen carrier.

Use 3.2 – 4.75 ounces OSPREY™ /acre by ground in tankmixture with 0.25% v/v non-ionic surfactant up to 3 gallons of liquid nitrogen (20-0-0 to 32-0-0) in a minimum 10 gallon mix per acre.

RE-SUSPENDING WG PRODUCTS IN SPRAY SOLUTION

Like other Water Dispersible Granules or suspension concentrates (SC's), OSPREY™ Herbicide will settle if left standing without agitation. If the spray solution is allowed to settle for one hour or more, re-agitate the spray solution for a minimum of 15 minutes before application.

COMPATIBILITY

If OSPREY™ Herbicide is to be tank mixed with other herbicides, compatibility should be tested prior to mixing. To test for compatibility, use a small container and mix a small amount (0.5 to 1 qt) of spray solution, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop, do not use this mixture for spraying. Indications of incompatibility usually occur within 5-15 minutes after mixing. Read and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

WEED CONTROL RECOMMENDATIONS

Rate Recommendation Tables for Weed Control

Apply OSPREY™ Herbicide at a rate of 4.75 ounces per acre in fall-sown or winter wheat. Weed control at selected weed heights and stages is shown in the following tables.

**Annual Weeds Controlled with OSPREY™ Herbicide
(ounces product/Acre)**

Grass Weed Species Common Name (Scientific Name)	4.75 ozs/Acre OSPREY™ Herbicide
Blackgrass (<i>Alopecurus myosuroides</i>)	1-leaf to 2-tiller
Bluegrass, annual (<i>Poa annua</i>)	1-leaf to 2-tiller
Bluegrass, roughstalk (<i>Poa trivialis</i>)	1-leaf to 2-tiller
Bluegrass, Kentucky (<i>Poa pratensis</i>)	1-leaf to 2-tiller
Canarygrass, hood * (<i>Phalaris paradoxa</i>)	1-leaf to 2-tiller
Canarygrass, littleseed * (<i>Phalaris minor</i>)	1-leaf to 2-tiller
Darnel, Persian* (<i>Lolium persicum</i>)	1-leaf to 2-tiller
Ryegrass, annual / Italian (<i>Lolium multiflorum</i>)	1-leaf to 2-tiller
Wild oat * (<i>Avena fatua</i>)	1-leaf to 2-tiller
Windgrass * (<i>Apera spica-venti</i> & <i>Apera interrupta</i>)	Up to 3 inches in height
* For fields with infestations of wild oat, windgrass, Persian darnel, or canarygrass only, 3.2 ozs/A of OSPREY™ Herbicide may be used.	

Broadleaf Weed Species	4.75 ozs/Acre OSPREY™ Herbicide
Mustard, tumble (<i>Sisymbrium altissimum</i>)	1 – 4 inches
Mustard, wild (<i>Brassica kaber</i>)	1 – 2 inches
Pennycress, field (<i>Thlaspi arvense</i>)	1 – 4 inches
Radish, wild (<i>Raphanus raphanistrum</i>)	1 – 2 inches
Volunteer Canola (<i>Brassica napus</i> & <i>Brassica rapa</i>)	1 – 2 inches