

# **CHEMICAL FALLOW: WHEAT-FALLOW-WHEAT ROTATIONS (FALL APPLIED AFTER HARVEST; SEEDED 12-14 MONTHS LATER) - WEEDS 1-3 INCHES**

General Information

## **PRODUCT INSTRUCTIONS AND INFORMATION**

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

When DEVOUR is applied at less than 10 gallons per acre finished spray volume, a drift control or spray deposition additive SHOULD be used. Refer to the additive label for rates of applications, directions for use, limitations, and restrictions.

## **PRODUCT INFORMATION**

DEVOUR is a liquid formation containing 3 lbs. of active ingredient per gallon. It contains a nontoxic odor to help prevent accidental ingestions. It also contains an emetic (an agent which will induce vomiting if the product is swallowed).

## **APPLICATION**

DEVOUR is a contact herbicide for control or suppression of a broad spectrum of emerged weeds including most small annual broadleaf and grass weeds. It can also be used to suppress perennial weeds by destroying green foliage and as a desiccant/defoliant at harvest.

Complete coverage of target weeds is necessary to get good control because DEVOUR is a contact-type herbicide. It is also necessary to obtain complete coverage for good crop desiccation and defoliations. Undesirable weed control and undesirable crop desiccation/defoliation will result if improper application technique and/or application to large, stressed, or mown weeds are made. Refer to the following details for specific application instructions.

Thorough coverage of all green foliage is required for efficacious weed control and crop defoliation and desiccation because DEVOUR requires actively growing green plant tissue to function.

Drought-stressed weeds, weeds with little green foliage (i.e., mowed or cut weeds), or mature woody bark of trees and vines are unaffected by application with DEVOUR.

There is no residual soil activity to affect later-planted crops or later germinating weeds because clay and organic matter rapidly tie up DEVOUR.

#### USE OF A NONIONIC SURFACTANT OR CROP OIL CONCENTRATE

The following should always be added and be used at the listed rates or there will be a reduction in efficacy of DEVOUR.

**Nonionic Surfactant:** Either add a nonionic surfactant cleared for the current use containing 50-74% surface-action agent at 0.25% v/v (2 pts./1 00 gals.), or add nonionic surfactant containing 75% or more surface-active agent at 0.125% v/v (1 pt./100 gals.), of the finished spray volume for ground applications. Add a nonionic surfactant at 0.25% v/v (2 pts./1 00 gals.) of the finished spray volume for aerial applications.

**Crop Oil Concentrate:** For ground applications, add a non-phytotoxic crop oil concentrate cleared for the current use that contains 15-20% approved emulsifier, with 1.0% v/v,(1 gal./100 gals.) of the finished spray volume. Add 1 pt. of crop oil concentrate per acre for aerial applications. For cotton harvest aid, do not use crop oil concentrate when using DEVOUR.

#### SPRAY CARRIER

DEVOUR may be inactivated by muddy water, or suspension-type fertilizers containing play. Therefore, always use clean water (free of mud or clay), clear liquid nitrogen, or complete clear liquid fertilizers as the carrier when spraying this product. Never use suspension-type fertilizers containing clay as the spray carrier. Always use the higher specified rate of DEVOUR and surfactant if using a complete clear liquid fertilizer containing high phosphate levels as the spray carrier.

**Note:** It is important that when using liquid fertilizers such as 28% N as a spray carrier, that nonionic surfactant still be used with DEVOUR. The use of liquid fertilizer carriers are not substitutes for surfactants.

## RATES OF DEVOUR

With each use, follow rates listed on the label. When weeds are larger or are dense, use the higher label rates. For use as a harvest aid, use higher specified rate when crop vegetation is dense. Do not exceed 0.50 lbs. a.i./A in a minimum of 30 gallons of spray for broadcast applications with backpack sprayers.

## SPRAY VOLUME

With each use, follow rates listed on the label. Spray volumes should be increased as necessary to obtain complete coverage of the target weed or plant without runoff from the foliage, because the volumes listed are minimum volumes only.

TARGET WEEDS SHOULD NOT EXCEED SIX INCHES IN HEIGHT WHEN SPRAYING LESS THAN 20 GALLONS OF SPRAY CARRIER PER ACRE.

## APPLICATION TIMING

Applications should be made to small emerged weeds. Larger weeds more than 6 inches in height may be more difficult to control than weeds 1-6 inches in height. If possible, when green foliage is removed either from grazing or mowing, allow the weeds to grow 2-4 inches in height. Also, during harvesting forage or grain crops before spraying, weeds present in the field are also cut. Therefore, raise cutter bars as high as possible from the ground to cut stubble and weeds at a greater height, allowing sufficient green foliage to remain for applications.

## BURNDOWN OF GRASS COVER CROPS OR VOLUNTEER CEREALS

The best results occur for control of grass cover crops or volunteer cereals when DEVOUR is applied prior to tillering or after boot stage, especially with a wheat cover crop or volunteer wheat. Complete control may not be achieved with treatments made between tillering and boot stage. Complete control of perennial cover crops should not be expected.

Refer to the label for the Mixing Instructions for Small Quantities for Spot Spraying.

## PRODUCT PRECAUTIONS AND RESTRICTIONS

## EQUIPMENT

DEVOUR is corrosive to aluminum. Thoroughly flush all aluminum spray equipment and aluminum aircraft structures that are exposed to spray solution or spray drift with water immediately after use. The activity of DEVOUR may be reduced in dry areas where dust stirred up by high winds or equipment tires can coat weed or plant leaves. Therefore, avoid applications in extremely dusty conditions.

#### LIMITATIONS AND PRECAUTIONS

- Unless otherwise indicated, DEVOUR will severely injure or kill crop plants emerged at time of application if they come in contact with sprays.
- Do not pasture livestock in treated fields or feed treated foliage in cotton when this product is used as a cotton harvest aid.
- Do not use around home gardens, schools, recreational parks, or playgrounds.
- Do not apply to soils lacking clay minerals such as peat, muck, pure sand, artificial planting media for preplant and preemergence (to the crop) uses.
- To enable maximum weed and grass emergence prior to treatment, seedbeds and plantbeds should be formed as far ahead of planting and treatment as possible.
- Avoid disturbing soil when seeding or transplanting.
- Transplanted plants may become damaged when they come in contact with plastic mulch used for preplant weed control and that has been treated with this product. To prevent damage to the crop, sufficient wash-off such as rainfall or sprinkler irrigation prior to planting may be needed.
- DEVOUR will be ineffective in controlling or suppressing weeds and grasses that have emerged after application.

#### Limitations, Restrictions, and Exceptions

#### PRODUCT INFORMATION FOR CHEMICAL FALLOW

- As the density of stubble, crop residue or weeds increases, use higher spray volumes for better coverage.
- To control volunteer wheat or downy brome, fall-applied treatments generally work best with DEVOUR. If possible, tank mix with atrazine for maximum burndown

and residual control.

- Apply from immediately after harvest up to emergence of the newly seeded crop as a broadcast or band treatment.
- Before applying DEVOUR, cut wheat as high as possible to avoid cutting weeds too short, and allow the weeds to grow at least 2-3" after harvest.
- The addition of dicamba (Banvel) or 2,4-D ester (Low Volatile) may aid in the suppression of emerged perennial broadleaf weeds and large annual broadleaf weeds.
- Always refer to the product label(s) for 2,4-D ester (Low Volatile), Banvel, or residual herbicide for rates of applications, directions for use, limitations, and restrictions.
- It is permissible to tank mix with registered residual herbicide combinations other than listed for extended weed control during the fallow period.
- Weeds and grasses emerging after application and weeds taller than 6 inches will not be controlled.
- Crop plants emerged at the time of application will be killed.
- The minimum total spray per acre allowed is 5 gallons for ground and 5 gallons for air applications.
- Apply 5-60 gallons spray mix per acre by ground application.
- When applying at less than 10 GPA by ground:
  - Do not apply with floaters or exceed a speed of 10 mph.
  - Apply with flat fan nozzles at 30-40 psi.
  - Apply only in a tank mix with atrazine at a minimum of 0.5 lb. a.i./acre.
- By air: apply in 5-10 gallons of spray mix per acre.

## CHEMICAL FALLOW

Wheat-Fallow-Wheat Rotations (Fall applied after harvest; seeded 12-14 months

later).

#### Additional Precautions, Restrictions and Directions

- Spray before weeds produce seeds.
- Control of volunteer wheat and downy brome control increases when applications are made late August or early September.
- For improved burndown and residual control of weeds, tank mix with Atrazine, Marksman® Herbicide, or Command Herbicide.
- For improved burndown and residual control of grass and broadleaf weed tank mix with metribuzin (Sencor 75DF).
- Always refer to the respective product label(s) for rates of applications, directions for use, limitations, and refer to the section "Product Information for Chemical Fallow".

#### Minimum Total Spray per Acre

Ground: 5 gals.

Air: 5 gals.

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

#### Rates

[field\\_rates 0](#)

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#### Restricted Entry Interval

24 hours

#### Timings

[Late August or early September.](#)

[Before weeds produce seeds.](#)