

CAUTION

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Nufarm
AVADEx[®] XTRA

Selective Herbicide

ACTIVE CONSTITUENT: 500 g/L TRI-ALLATE

SOLVENT: 471 g/L LIQUID HYDROCARBON

GROUP **E** HERBICIDE

For the control of Wild oats in Wheat, Triticale, Chickpeas, Barley, Peas, Linseed, Lupins, Canola (Rapeseed), Faba beans and Safflower and for use in mixtures with TriflurX for control of a range of grass and broadleaf weeds in no-till/min-till cropping systems, pre-sowing or incorporated by sowing (IBS) as per directions for use.

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE
USING THIS PRODUCT**

20 Litres
110 Litres
200 Litres
1000 Litres

Nufarm Australia Limited
ACN 004 377 780
103-105 Pipe Road
Laverton North Victoria 3026
Tel: (03) 9282 1000
Fax: (03) 9282 1001



STORAGE AND DISPOSAL

20L , 200L

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Envirodrum 110L Mini Bulk Returnable Container:

Store the original sealed Envirodrum in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase. The Envirodrum remains the property of Nufarm Australia Limited.

Refillable Containers: 1000L

Store in the closed, original container in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.

SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with eyes, skin and clothing. Do not inhale spray mist. When preparing spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre (Phone 13 11 26).

If swallowed, DO NOT induce vomiting. Give a glass of water. Avoid giving alcohol.

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS).

CONDITIONS OF SALE

"Nufarm Australia Limited ('Nufarm') shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Nufarm's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Nufarm has any authority to add to or alter these conditions."

APVMA Approval No.: 56598/20L/1006

APVMA Approval No.: 56598/110L/1006

APVMA Approval No.: 56598/200L/1006

APVMA Approval No.: 56598/1000L/1006

In case of emergency: Phone 1800 033 498

Ask for shift supervisor. Toll free 24 hours.

Date of Manufacture:

Batch No:

Drum Muster Logo

Barcode

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READ THOROUGHLY BEFORE USING.

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DIRECTIONS FOR USE

| Crop | Weed Controlled | States | Rate L/ha | Critical Comments |
|---|--|----------------------------|------------------------------------|---|
| <p>Barley, Triticale, Wheat</p> <p>Chickpeas, Faba beans, Lupins, Peas</p> <p>Linseed, Canola, Safflower</p> | Wild Oats | All States | 1.6 L | <p>Apply immediately prior to or up to 3 weeks before sowing to a friable seedbed under conditions which will allow for the incorporation of the product to a depth of 2 to 4 cm with either a single or double pass of suitable Incorporation equipment (see Incorporation). A delay of 1 week between application and planting is recommended for Linseed.</p> <p>COMPLETE AND UNIFORM INCORPORATION OF AVADEX®XTRA IS ESSENTIAL FOR WEED CONTROL. See GENERAL INSTRUCTIONS for details of incorporation. AVADEX®XTRA may be used in crops undersown with legumes. For shallow-sown legume and oil seed crops, complete incorporation by cultivation to a depth of 5cm must be undertaken before planting.</p> <p>AVADEX®XTRA may be tank mixed with Lusta or Nugran for control of annual ryegrass, paradoxa grass and certain broadleaf weeds prior to planting of wheat only.</p> <p>AVADEX®XTRA may be tank mixed with Nufarm TriflurX for control of annual ryegrass, annual phalaris, paradoxa grass, enhanced control of wild oats (emerging from top 1cm of seedbed) and wireweed. Do not apply less than 1 week prior to planting of wheat, barley, triticale and linseed (do not use the tank mix in Qld). Incorporation of this tank mix should be within 4-5 hours of application. Refer to the TriflurX label incorporation details.</p> <p>Read and follow label instructions, restraints, plant-back periods and safety directions for tank mix products.</p> |
| <p>Wheat, barley and triticale</p> | <p>Annual Ryegrass, Wireweed, Phalaris spp, Fumitory, Wild Oats, Cereal oats, Sand Fescue (<i>Vulpia fasciculata</i>), Silvergrass (<i>Vulpia bromoides</i>) Wintergrass (<i>Poa annua</i>), Paradoxa Grass (Canary Grass) (<i>Phalaris paradoxa</i>), Corn Gromwell (Sheepweed) (<i>Buglossoides anvensis</i>), Rough Poppy (<i>Papaver hybridum</i>)</p> <p>Suppression Soil Surface - Bromegrass (<i>Bromus diandrus</i>), Barleygrass (<i>Hordeum leporinum</i>), Three Cornered Jack (doublegee) (<i>Emex australis</i>), Caltrop (Yellowvine & Bullhead) (<i>Tribulus terrestris</i>), Yellow Burr Weed (<i>Amsinckia</i> spp), Deadnettle (<i>Lamium amplexicaule</i>), Speedwell (<i>Veronica</i> spp)</p> | WA, SA, Vic, NSW, Qld only | 1.6 - 2.0 L plus 1.5-2.0L TriflurX | <p>For use in no-till/min-till Cropping Systems, Pre-Sowing or Incorporated by Sowing (IBS).</p> <p>Use only with knife/blade points and presswheels - refer to table 13 for method of incorporation. Use higher rates on light sandy and sandy loam soils. DO NOT use on heavy soils. Avoid soils, which are non-wetting or are likely to become clumpy or cloddy as they may suffer reduced weed control. Use higher rates for heavier stubble coverage and high weed density situations. Stubble coverage above 40-50% ground cover can reduce weed control below acceptable levels. Suppression of Bromegrass and Barleygrass may be reduced in medium to high weed density situations. Higher rates are likely to provide improved control levels of Bromegrass, Wild oats, Cereal oats, Barleygrass and Silvergrass. Control of deep / late germinating weeds may be reduced.</p> <p>Insufficient incorporation of Avadex Xtra will reduce Wild oat control. Control may be poor in the first years of practising no-till/min till.</p> <p>To maintain crop safety attention to sowing speed and soil throw is required. Avoid throwing treated soil into adjacent sowing furrows. This is especially critical at higher use rates. Avoid sites that water log or where furrow walls may collapse as crop establishment & vigour may be reduced.</p> <p>Incorporate within 24 hours of application when applied onto a dry soil. Incorporate within 6 hours when applied onto a moist soil. If applied onto a dry soil, and it rains before sowing/incorporation is planned, incorporate within 6 hours to ensure the effectiveness of Avadex Xtra is retained.</p> |

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

WEED CONTROL

AVADEX[®]Xtra normally provides 6 to 8 weeks control of wild oats when the seedbed is moist during the emergence of wild oats. Under very dry soil surface (top 2cm) conditions, wild oats may not be controlled.

Wild oats may emerge between application and complete incorporation by sowing particularly if initial incorporation is provided by harrows. AVADEX[®]Xtra may not control wild oats which have germinated at the time of application and incorporation if the top 2 cm of soil is dry. AVADEX[®]Xtra will not control emerged wild oats.

CROP SAFETY

Reduced emergence of cereals and linseed may occur if seed is placed in treated soil layer. Do not plant cereal crops at greater than 5 to 7 cm.

Overspraying of headlands or corners may result in crop damage. On heavy clay soils, crop thinning may occur in wheel tracks. Environmental conditions which adversely affect emergence or early crop growth, may predispose crops to injury, particularly where tank mixes with other pre-emergence herbicides are used.

Read and follow label directions, restraints, plant-back periods and safety directions for tank mix products.

SOIL PERSISTENCE AND FOLLOWING CROPS

Under prolonged and extremely dry conditions AVADEX[®]Xtra may persist for several months. Damage to field oats and sorghum may occur.

MIXING

AVADEX[®]Xtra herbicide is an oily concentrate that mixes readily with water. Add the required amount of AVADEX[®]Xtra to half the required amount of water in the spray tank. Mix thoroughly and add the remaining water.

APPLICATION

Apply to soil in friable condition so that uniform incorporation of the product can be achieved to a depth of 2 to 4 cm. The soil should be free of large clods (>75 mm) and should not have crop or weed residue at a level which will interfere with the free flow of soil through planting equipment providing full soil disturbance. Emerged wild oats should be controlled either by prior cultivation/application of a knockdown herbicide or by the tank mixing of a knockdown herbicide with AVADEX[®]Xtra.

Apply AVADEX[®]Xtra by ground sprayer in 30 to 100 litres of water per hectare using a boomspray fitted with flat fan nozzles. Use spraying pressure of approximately 200-240kPa. Avoid application under strong and/or gusty wind conditions.
DO NOT apply by aircraft.

INCORPORATION

Two pass incorporation provides superior weed control to single pass incorporation on heavier textured soils.

(i) AVADEX[®]Xtra may be incorporated initially in a suitable cultivated seedbed with either heavy 5 row harrows e.g. Phoenix harrow, or tyned cultivator. Final incorporation with a combine or airseeder/cultivator is essential to provide for maximum weed control. Heavy tyned harrows or a rotary harrow should trail the planter or follow as a separate operation at an angle to the planter to complete incorporation. Ensure that the soil surface is left free of pronounced ridging.

(ii) On soils in friable condition, AVADEX[®]Xtra may be incorporated with the planting operation only up to 24 hours following application onto a dry soil surface or up to 6 hours on moist surface soil. If AVADEX[®]Xtra has been sprayed on dry soil, and it rains before incorporation is planned, the product must be incorporated within 6 hours to retain its herbicide effectiveness. Planting should be carried out with a combine or airseeder/cultivator which provides full soil disturbance. Heavy tyned harrows or a rotary harrow should trail the planter or follow as a separate operation to complete incorporation. Ensure that the soil surface is left free of pronounced ridging.

Do not operate incorporation equipment at greater than 5 to 7 cm depth.

Where soil is wet at planting, poor incorporation may result. For shallow-sown legume and oil-seed crops, complete incorporation by cultivation to a depth of 5 cm must be undertaken before planting.

Note that point size should be matched to tyne spacing to avoid uneven incorporation. For example, a wideline seeder with 15 cm tyne spacing should be fitted with unworn 15 cm points. A combine with 9 cm spacing should be fitted with an evenly worn set of 10 cm points. Sweeps or other low profile points may not provide satisfactory incorporation.

COMPATIBILITY

AVADEX[®]Xtra is compatible with: Lusta[™], Nugran, TriflurX⁺, Roundup[^]CT, Roundup[^]Dry, Yield^{*}, MONZA[^], Roundup[^]Max, Nufarm Glyphosate CT, Credit⁺ and Bonus⁺, Weedmaster⁺ Duo.

RESISTANT WEEDS WARNING

AVADEX[®]Xtra herbicide is a member of the thiocarbamate group of herbicides. AVADEX[®]Xtra has the inhibition of mitosis mode of action. For weed resistance management AVADEX[®]Xtra is a Group E herbicide.

Some naturally occurring weed biotypes resistant to AVADEX[®]Xtra and other Group E herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These weeds will not be controlled by AVADEX[®]Xtra or other Group E herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of AVADEX®Xtra to control resistant weeds.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF LIVESTOCK, FISH, CRUSTACEA AND ENVIRONMENT

Dangerous to fish. Do not contaminate dams, rivers or streams with AVADEX or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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In case of emergency: Phone 1800 033 498

Ask for shift supervisor. Toll free 24 hours.

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