



Product Name: IMTRADE DIABLO DUO HERBICIDE  
APVMA Approval No: 84059/119107

Label Name:	IMTRADE DIABLO DUO HERBICIDE
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Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	666g/L PROSULFOCARB + 333g/L TRI-ALLATE
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Mode of Action:	GROUP J HERBICIDE
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Statement of Claims:	For the pre-emergent control of Annual Ryegrass and the Suppression of Barley Grass and Silver Grass in Barley and Wheat as per the Directions for Use.
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Net Contents:	1L - 1000L
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Restraints:	<p>DO NOT apply by aircraft. DO NOT apply to soils prone to waterlogging, sodic soils or soils affected by physical compaction DO NOT apply if heavy rains or storms that are likely to cause runoff are forecast within 3 days. DO NOT irrigate to the point of runoff or at least 3 days after application. DO NOT make more than one application per year. DO NOT apply to waterlogged soils. DO NOT apply if heavy rains or storms that are likely to cause runoff are forecast within 2 days of application.</p> <p><b>SPRAY DRIFT RESTRAINTS</b> DO NOT apply with spray droplets smaller than a COARSE spray droplet size category according to 'APVMA Compliance Instructions for Mandatory COARSE or Larger Droplet Size Categories' located under this title in the GENERAL INSTRUCTIONS section of this label.</p>
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	<p>DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour, as measured at the application site.</p> <p>DO NOT apply during surface temperature inversion conditions at the application site.</p> <p>Users of this product MUST make an accurate written record of the details of each spray application within 24 hours following application, and must KEEP this record for at least 2 years. The spray application details that must be recorded are:</p> <ol style="list-style-type: none"> <li>1. date with start and finish times of application;</li> <li>2. location address and paddock(s) sprayed;</li> <li>3. full name of this product;</li> <li>4. amount of product used per hectare and number of hectares applied to;</li> <li>5. crop or situation and weed or pest;</li> <li>6. wind speed and direction during application;</li> <li>7. air temperature and relative humidity during application;</li> <li>8. nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application;</li> <li>9. name and address of person applying this product.</li> </ol> <p>(Additional record details may be required by the State or Territory where this product is used).</p> <p><b>MANDATORY NO-SPRAY ZONES</b></p> <p>DO NOT apply if there are sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat within 25 metres downwind from the application area.</p> <p>DO NOT apply if there are aquatic and wetland areas including aquacultural ponds, surface streams and rivers within 25 metres downwind from the application area.</p>
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Directions for Use:	
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Other Limitations:	
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Withholding Periods:	<b>GRAZING</b> Cereal Forage: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 11 WEEKS AFTER APPLICATION
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Trade Advice:	
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General Instructions:	
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Resistance Warning:	Imtrade Diablo Duo Herbicide is a member of the thiocarbamate group of herbicides. Imtrade Diablo Duo Herbicide is an Inhibitor of mitosis via fatty acid inhibition. For weed resistance management Imtrade Diablo Duo Herbicide is a Group J Herbicide. Some naturally occurring weed biotypes resistant to Imtrade Diablo Duo Herbicide and other Group J 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 Imtrade Diablo Duo Herbicide
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	<p>or other Group J Herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Imtrade Australia Pty Ltd accepts no liability for any losses that may result from the failure of Imtrade Diablo Duo Herbicide to control resistant weeds.</p> <p>Advices as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or an Imtrade Australia Pty Ltd representative.</p>
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Precautions:	<p>DO NOT use open mixing and loading. DO NOT apply by open cab ground boom.</p>
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Protections:	<p><b>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</b> Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.</p> <p><b>PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS</b> Highly toxic to bees. DO NOT spray while bees are actively foraging. DO NOT allow spray drift to flowering weeds or flowering crops in the vicinity of the treatment area. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is potential for managed hives to be affected by the spray or spray drift. Risk to bees is reduced by spraying in early morning and late evening while bees are not foraging.</p> <p><b>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</b> DO NOT sow susceptible crops within 6 months of herbicide application. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly wetlands, waterbodies or watercourses. DO NOT allow spray to drift onto adjacent fallow land. DO NOT apply on or near shrubs, trees, lawns or crops other than Barley or Wheat. DO NOT drain or flush equipment on or near desirable trees or other plants, where their roots may extend, or in situations where by movement of soil or by seepage absorption of the herbicide may occur.</p>
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Storage and Disposal:	<p>The method of disposal of the container depends on the container type. Read the Storage and Disposal instructions on the label that is attached to the container.</p> <p>Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.</p> <p>All Pack Sizes unless otherwise stated Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product. DO NOT re-use empty container for any other purpose.</p>
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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.

Refillable Containers (1000L only)

Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.

Safety Directions:	Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container and preparing the spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.
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First Aid Instructions:	If poisoning occurs, contact a Doctor or Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 786).
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First Aid Warnings:	
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Crop	Weed Controlled	Rate/ha	Critical Comments
<b>Barley, Wheat</b>	<p>Annual Ryegrass (<i>Lolium rigidum</i>) including Group D Resistant populations</p> <p><b>Suppression of:</b> Barley Grass (<i>Hordeum spp.</i>), Silver Grass (<i>Vulpia spp.</i>)</p>	2.25 – 3L/ha	<p>Apply immediately prior to sowing (within 24hrs) Incorporation By Sowing (IBS) methods should be utilised using suitable sowing equipment. Sufficient rainfall to thoroughly wet the top 2-3cm of soil should occur within 10 days of application.</p> <p><b>COMPLETE INCORPORATION OF IMTRADE DIABLO DUO HERBICIDE IS ESSENTIAL FOR OPTIMAL WEED CONTROL.</b></p> <p>See <b>GENERAL INSTRUCTION – INCORPORATION BY SOWING</b> for details on IBS incorporation.</p> <p>Use the high rate where adverse conditions and/or high weed seedbank numbers are present.</p>

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

## **GENERAL INSTRUCTIONS**

Imtrade Diablo Duo Herbicide is a short residual, soil applied, pre-emergent herbicide that is absorbed by the roots and shoots (coleoptile) of germinating seedlings with inhibition of growth in the meristematic region. Upstream translocation in the plant occurs but movement in the phloem is very unlikely. Best activity can be expected from applications before or shortly after the germination of target weeds.

Imtrade Diablo Duo Herbicide should be applied to a seedbed free of soil clods and emerged weeds. Product efficacy may be reduced by improper incorporation, high levels of crop or trash residues, stones or foreign matter and in areas of extremely high weed seed density such as header rows. For optimal efficacy and crop safety, avoid shallow seeding and ensure accurate seed placement that avoids placement of seed in the herbicide band. Avoid water repellent soils, soils subject to waterlogging or where furrow walls are likely to collapse. Duration and effectiveness of weed control will depend on use rate, soil type and rainfall or irrigation after application. Adequate rainfall should occur within 10 days of application, as this herbicide requires sufficient available soil moisture to ensure soil movement and uptake by emerging weed seeds.

## **APVMA Compliance Instructions for Mandatory COARSE or Larger Droplet Size Categories**

### **Important Information**

These instructions inform users of this chemical product how to lawfully comply with the requirement of a COARSE or larger spray droplet size category for spray application.

Spray droplet size categories are defined in the ASAE S572 Standard (newer name may also be shown as ASABE) or the BCPC guideline. Nozzle manufacturers may refer to one or both to identify droplet size categories, but for a nozzle to comply with this requirement, the manufacturer must refer to at least one.

**Complying with the label requirement to use a specific droplet size category means using the correct nozzle that will deliver that droplet size category under the spray operation conditions being used. The APVMA has approved only the following specific methods for choosing the correct nozzle. Use one of the methods specified in these instructions to select a correct nozzle to deliver a COARSE or larger droplet size category.**

### **SECTION 1: Instructions for Ground Application – for COARSE droplet size or larger categories.**

#### **Mandatory Instructions for Ground Applications**

**USE ONLY** nozzles that the nozzles' manufacturer has rated to deliver a COARSE, a VERY COARSE or an EXTREMELY COARSE droplet size category as referenced to ASAE S572 or BCPC. Choose a nozzle specified to provide the droplet size category required in the label Spray Drift Restraints.

**DO NOT** use a higher spray system pressure than the maximum the manufacturer specifies for the selected nozzle to deliver the droplet size category required in the label Spray Drift Restraints.

### **CROP TOLERANCE**

**DO NOT** plant cereal crops at greater than 5 to 7cm. Overspraying of headlands or corners may result in crop damage. On heavy clay soils, crop thinning may occur in wheel tracks.

The selectivity of Imtrade Diablo Duo Herbicide in cereals is a combination of positional and physiological selectivity. Positional selectivity must be maintained by sowing at adequate depth below the herbicide band. The physiological selectivity of Imtrade Diablo Duo Herbicide is given by the ability of cereals to metabolise the herbicide to inactive compounds more rapidly than susceptible weed species. Environmental factors such as rainfall events following application and soil type will influence product movement into the seed zone. Crop injury may occur when used in sandy soils with high leaching potential or in all soil types when heavy rainfall is received between sowing and emergence. Crop injury may also result from tank mixes with other herbicides or in the event of crop stresses including frost. Risk of crop damage may be exacerbated where varieties with short coleoptile length are planted in conjunction with the use of some fungicide seed treatments.

### **SOIL PERSISTENCE AND FOLLOWING CROPS**

Under prolonged and extremely dry conditions Imtrade Diablo Duo Herbicide may persist for several months.

### **INCORPORATION BY SOWING**

Incorporation by Sowing (IBS) with knife or blade points. Working speed should ensure adequate incorporation of product but avoid soil throw into the adjacent seeding row. Use of presswheels will minimise potential for herbicide to be dragged back into seeding rows. Weed control may be reduced in seeding rows as chemical displacement from this zone occurs, concentrating the herbicide in crop inter-rows.

A knife or blade point is defined as being <12mm in width, having no wings, inverted T or blade and is generally on a minimum 200mm row spacing.

Stubble coverage above 40-50% ground cover can reduce Weed control below acceptable levels.

### **IMTRADE DIABLO DUO HERBICIDE MUST BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF APPLICATION**

### **MIXING**

Imtrade Diablo Duo Herbicide is an emulsifiable concentrate that mixes readily with water. Fill the spray tank to one quarter full and add Imtrade Diablo Duo Herbicide. Continue adding water to make up to the final spray volume. Agitate while mixing and spraying.

When tank mixing, wettable powder or water dispersible granule formulations should be added to the tank first followed by suspension concentrates (flowables), water soluble salts then Imtrade Diablo Duo Herbicide or other emulsifiable concentrate formulations. Maintain thorough agitation during mixing and application. Agitate tank-mixes vigorously if allowed to stand.

**Note:** Tank-mix spray solution should **NOT** be left standing in the vat overnight.

### **APPLICATION**

**DO NOT** apply by air.

Emerged weeds should be controlled either by prior cultivation/application of a knockdown herbicide or by the tank mixing of a knockdown herbicide with Imtrade Diablo Duo Herbicide.

Apply Imtrade Diablo Duo Herbicide by ground sprayer in 50 to 100L of water per hectare. Water rate selection should be based on soil type and stubble load. Stubble loads above 40 to 50% ground coverage can reduce weed control below acceptable levels. Water volumes greater than 70L/ha are recommended in order to reduce the impact of stubble in direct drill on minimum tillage systems. Spray rig booms should be fitted with flat fan nozzles delivering spray quality in the coarse to very coarse spray range. Use a spraying pressure of approximately 200 - 240kPa. Avoid application under strong and/or gusty wind conditions.

### **SPRAYER CLEAN-UP**

After using Imtrade Diablo Duo Herbicide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any filters in the tank, pump, line and nozzles.

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**To rinse:** After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

### **COMPATIBILITY**

Imtrade Diablo Duo Herbicide is compatible with any one of the following herbicides: Glyphosate, ChemAg Chlorsulfuron 750g/kg, Imtrade Mandate 750 WG Selective Herbicide, Imtrade Frenzy 750 Herbicide, Imtrade Trifluralin 480 EC Herbicide.

**DO NOT** tank mix with 2,4-D Amine.

*Always refer to plant back restrictions on the label of the tank mix partner.*

As formulations of other manufacturer's products are beyond the control of Imtrade Australia Pty Ltd and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

### **Resistance Management**

Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be made to prevent seed set of the surviving weeds. **DO NOT** make more than 1 application of a Group **J** Herbicide with the inhibition of fat acid synthesis mode of action to a crop in the same season.

If the user suspects that the target weed population is resistant to herbicides with this mode of action, Imtrade Diablo Duo Herbicide or other Group **J** Herbicides should not be used. Strategies to minimise the risk of herbicide resistance are available. The above recommendations should be incorporated into an Integrated Weed Management (IWM) Program that uses a diverse range of options to manage grass weeds and avoids over reliance on any 1 method of control. Consult your local supplier, consultant, local Department of Agriculture, Primary Industries Department or an Imtrade Australia Pty Ltd representative for details.

### **Tank Mixes**

Application of Imtrade Diablo Duo Herbicide at less than 2.25L/ha when tank mixing for Annual Ryegrass control **WILL NOT** be effective in the control of Group **D** resistant populations nor to delay the onset of herbicide resistance development. Tank mixing of herbicides is only effective in managing resistance where a lethal dose rate of each herbicide is applied.