

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**IMTRADE**

# **Thidiazuron 500 SC Flowable Cotton Defoliant**

**ACTIVE CONSTITUENT: 500g/L THIDIAZURON**

For the Defoliation of Cotton prior to Harvest

**IMPORTANT: READ THIS LABEL THOROUGHLY BEFORE  
OPENING OR USING THIS PRODUCT**

**APVMA APPROVAL NO: 94141/141681**

**NET CONTENTS: 5L – 1000L**



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**RESTRAINTS**

**DO NOT** apply when night temperatures fall below 12°C.

**DO NOT** apply following application of sodium chlorate, magnesium chlorate or diquat.

**SPRAY DRIFT RESTRAINTS**

Specific definitions for terms used in this section of the label can be found at [www.apvma.gov.au/spraydrift](http://www.apvma.gov.au/spraydrift)

- **DO NOT** allow **bystanders** to come into contact with the spray cloud.
- **DO NOT** apply in a manner that may cause an unacceptable impact to **native vegetation, agricultural crops, landscaped gardens** and **aquaculture production**, or cause contamination of plant or livestock commodities, outside the application site from **spray drift**. The **buffer zones** in the relevant buffer zone tables below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.
- **DO NOT** apply unless **wind speed** is between 3 and 20 kilometres per hour at the **application site** during the time of application
- **DO NOT** apply if there are **hazardous surface temperature inversion** conditions present at the **application site** during the time of application. **Surface temperature inversion conditions** exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

**DIRECTIONS FOR USE (For use in NT, QLD, NSW, WA only)**

CROP/SITUATION	DEFOLIATION CONDITIONS	RATE/HA	CRITICAL COMMENTS
Cotton/Defoliation – first or second spray	<b>IDEAL</b> Conditions are hot to warm (30 to 35°C daytime temperature) and the crop is ready to be defoliated with natural senescence already occurring. Nitrogen and water are almost depleted and there is little or no top growth. A good fruit load is set.	50 to 100 mL plus 2.0L D-C Tron Cotton Spray Oil	Apply the first spray to Cotton which has been grown under good (non-stressed) conditions and is physiologically mature i.e. when the top harvestable boll is mature.  Application made prior to boll maturity may result in yield and quality reductions. <ul style="list-style-type: none"> <li>• Use the lower rates of 50 to 75 mL/ha only under warm early season conditions.</li> <li>• Use the higher rate for denser canopies or to provide a faster response.</li> <li>• A second spray 7 to 10 days of either IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT or an alternative harvest aid may be required.</li> </ul>
	<b>GOOD</b> Conditions are warm (25 to 30°C daytime temperature) and the crop is ready to be defoliated. Nitrogen and water are low and there is little or no new growth and a good fruit load is set.	100 to 150 mL plus 2.0L D-C Tron Cotton Spray Oil	Apply as above, but use these rates under good conditions.
	<b>AVERAGE</b> Conditions are: 1) Warm but night temperatures are dropping to 12°C (not below) and the crop is physiologically ready to defoliate or, 2) Temperature is still hot/warm but the crop is not physiologically ready to senesce.	150 to 200 mL plus 2.0L D-C Tron Cotton Spray Oil	Apply as above, but use these rates under average conditions.
	<b>COLD</b> Night temperatures fall below 12°C and/or mean day/night temperatures fall below 18°C.	-	<b>DO NOT</b> apply IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT under cold conditions.

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

#### **WITHHOLDING PERIOD**

**COTTON HARVESTING: NOT REQUIRED WHEN USED AS DIRECTED.**

**GRAZING/COTTON TRASH: DO NOT GRAZE TREATED AREAS OR FEED COTTON TRASH TO LIVESTOCK.**

#### **EXPORT OF TREATED PRODUCE**

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT. If you are growing produce for export, please check with Imtrade CropScience for the latest information on MRL's and import tolerances BEFORE using IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT.

#### **GENERAL INSTRUCTIONS**

IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT IS AN ODOURLESS, NON-CORROSIVE DEFOLIANT/HARVEST AID. After treatment with IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT, leaves fall while still green so that there is minimal dry leaf trash to contaminate fibre or interfere with harvesting. Maximum defoliation occurs 7 to 21 days following application of IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT. Good control of regrowth is seen when IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT is used at rates over 100 mL/ha. Defoliation will be slower under cold conditions, or when the crop is not physiologically mature.

#### **NOTE**

Rainfall within 24 hours after application will reduce the effectiveness of IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT, re-treatment may be necessary. Defoliation of crops with moderate to high levels of nitrogen remaining in the soil are more prone to leaf freezing than crops that have depleted soil nitrogen. Tank mixes of IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT with organophosphates may form a residue in application equipment. While still fresh and moist, this residue is easily removed by flushing the entire system with a commercial tank cleaner.

**DO NOT** allow the spray solution to dry in the application equipment. Immediately following application, flush and rinse equipment (mix tanks, pumps, transfer lines, application tanks, sumps, booms, nozzles and all related equipment) thoroughly with detergent and water. Should any residue of IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT remain in the sprayer system, it may be released during subsequent applications of other products, causing damage to crops.

#### **MIXING**

Add the required amount of IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT straight into the partly filled spray tank or mixing vat with agitator running, followed by D-C Tron Cotton Spray Oil, and then the rest of the water. Keep mixture agitated while spraying.

Use only freshly prepared sprays. **DO NOT store spray mixture overnight.** When tank mixing with emulsifiable concentrates (EC's), add IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT to the half-filled spray tank or mixing vat and agitate thoroughly. With agitator running, add the EC product, followed by the D-C Tron Cotton Spray Oil. Keep mixture agitated while spraying.

#### **APPLICATION**

Apply as a uniform spray ensuring thorough coverage of the whole plant.

#### **Equipment**

##### **Aircraft**

Apply by aircraft in 20 to 40L/ha spray mixture and ensure thorough coverage. A steady crosswind is recommended for best penetration. **DO NOT** exaggerate swath width.

##### **Ground Sprayers**

Standard boom sprayers are recommended and must be fitted with mechanical or by-pass agitation. Use sufficient water to obtain complete coverage of all leaves, i.e. at least 90 to 100 litres of water per hectare. Good coverage should be obtained with three or more nozzles per row depending upon crop height and canopy density. A nozzle configuration including droppers will give maximum coverage in dryland crops with particular care taken to ensure thorough but even coverage. Overdosing on some plant parts e.g. nozzle overlap along the sides of plants may cause localised leaf freezing. If band spraying dryland crops, care should be taken when calculating the actual applied rate of IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT per sprayed hectare.

### **COMPATIBILITY**

IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT is compatible in tank mixtures with ethephon, dimethoate and parathion.

**CAUTION:** When tank mixed with glyphosate, a higher proportion of cotton leaf may be retained (freezing).

**DO NOT** use this mixture on stressed Cotton, particularly drought-affected Cotton.

### **PRECAUTION**

**DO NOT** use human flagging unless flaggers are protected by engineering controls such as vehicles with cabs.

### **RE-ENTRY PERIOD**

**DO NOT** allow entry into treated areas until spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

### **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

**DO NOT** allow spray drift to contact trees or crops other than Cotton, as this product may injure or defoliate other crops, particularly Citrus, Grapevines and Lettuce.

To help reduce drift damage potential:

- **DO NOT** apply IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT by air when Citrus in flush is within 8km downwind from the point of application.
- **DO NOT** apply IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT by air when within 800m of Lettuce.

In addition:

- **DO NOT** plant Lettuce or Carrots in Cotton fields where IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT has been applied within the previous 9 months.
- **DO NOT** plant Legumes, Lucerne, other root crops or leafy vegetables (besides those noted above) in Cotton fields where IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT has been applied within the previous two months.
- **DO NOT** plant small grains, Sorghum or Corn in Cotton fields where IMTRADE THIDIAZURON 500 SC FLOWABLE COTTON DEFOLIANT has been applied within the previous two weeks.

### **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

**DO NOT** contaminate streams, rivers or waterways with the chemical or used containers.

### **STORAGE AND DISPOSAL**

**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.**

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

#### ***All other non-refillable containers***

Triple 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 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 and product.

#### **Envirodrum - Micro Matic Valve**

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 other 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**

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

## SAFETY DIRECTIONS

May irritate the eyes. Avoid contact with the eyes. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

## FIRST AID

First aid is not generally required. If in doubt, contact a Poisons Information Centre (*Phone Australia 13 11 26; New Zealand 0800 764 766*) or doctor.

### Additional GHS Hazard & Precautionary Statements

●Combustible liquid; ●Causes skin irritation; ●May cause respiratory irritation;● Harmful if swallowed or in contact with skin; ●Keep away from heat, sparks, open flames and hot surfaces – No smoking; ●Avoid breathing fumes, mists, vapours or spray; ●**DO NOT** get on skin or on clothing; ●Wash contacted areas thoroughly after handling; ●Use only outdoors or in a well-ventilated area; ●Call a POISON CENTRE or doctor if you feel unwell; ●**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting; ●**IF ON SKIN:** Wash with plenty of soap and water; ●**IF ON SKIN (or hair):** Remove immediately all contaminated clothing. Rinse skin with water; ●**IF INHALED:** Remove victim to fresh air and keep comfortable for breathing; ●If skin irritation occurs: Get medical advice; ●In case of fire: Use carbon dioxide, dry chemical, foam, to extinguish.

## SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from your supplier or from our website at [www.imtrade.com.au](http://www.imtrade.com.au)

## CONDITIONS OF SALE

Imtrade CropScience 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 Imtrade'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 Imtrade CropScience has any authority to add to or alter these conditions.

In a Transport Emergency  
Dial **000**  
Police or Fire Brigade

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