

# POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



# Topik<sup>®</sup> 240EC

Selective Herbicide

**syngenta.**

**ACTIVE CONSTITUENTS:** 240 g/L CLODINAFOP-PROPARGYL  
60 g/L CLOQUINTOCET-MEXYL  
**SOLVENTS:** 560 g/L LIQUID HYDROCARBONS  
100 g/L N-METHYL-2-PYRROLIDONE

GROUP	<b>A</b>	HERBICIDE
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Controls Wild Oats, Paradoxa Grass (Annual Phalaris),  
Canary Grass and Annual Ryegrass in Wheat  
Highly active on Wild Oats and can be mixed with many  
broadleaf herbicides

**Syngenta Australia Pty Ltd**

Level 1, 2-4 Lyonpark Road, Macquarie Park NSW 2113

***In a transport emergency dial 000, Police or Fire Brigade***

***For specialist advice in an emergency only, call 1800 033 111 (24 hours)***

**APVMA Approval No: 49344/50512**

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## DIRECTIONS FOR USE

### Restraints

DO NOT apply if rainfall is expected within 2 hours

DO NOT apply to weeds or crops which are under stress. For example, due to very dry, very wet, frosty or diseased conditions, nutrient deficiency or high insect pressure

DO NOT apply to weeds or crops immediately after a prolonged period of frosts

DO NOT apply under poor growing conditions

Crop	Weeds	States	Rate/ha	Weed Growth Stage	Critical Comments
Wheat 2 leaf to late jointing (GS12-37)	Wild Oats	Qld, Nth NSW only	65 mL plus 500 mL Adigor® Spray Adjuvant/100 L water or similar compatible oil	2 to 5 leaf	<b>NOT TO BE MIXED WITH BROADLEAF HERBICIDES AT THESE RATES</b> Apply at 85 mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified. Refer to Minimum Oil Volumes section. <b>Cold water:</b> Under cold water conditions (10°C or less) DO NOT use D-C-Trate* Spray Adjuvant, use Adigor or one of the other listed compatible alternatives.
			85 mL plus 500 mL Adigor/100 L water or similar compatible oil	2 leaf to mid tillering	<b>MAY BE TANK MIXED WITH COMPATIBLE HERBICIDES</b> Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing TOPIK with certain broadleaf weed herbicides some reduction in grass weed control may occur. Refer to Compatibility section. Unless otherwise specified always use Adigor or similar compatible oil when tank mixing broadleaf herbicides. Apply at 125 mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified. Refer to Minimum Oil Volumes section. <b>Cold water:</b> Under cold water conditions (10°C or less) DO NOT use D-C-Trate Spray Adjuvant, use Adigor or one of the other listed compatible alternatives.
			125 mL plus 500 mL Adigor/100 L water or similar compatible oil	2 leaf to mid tillering	
		Sth NSW, Vic, SA, WA only	65 mL plus 500 mL Adigor/100 L water or similar compatible oil or 100 mL non-ionic surfactant (100%)/100 L water	2 to 5 leaf	<b>MAY BE TANK MIXED WITH COMPATIBLE HERBICIDES</b> Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing TOPIK with certain broadleaf weed herbicides some reduction in grass weed control may occur. Refer to Compatibility section. Unless otherwise specified always use Adigor or similar compatible oil when tank mixing broadleaf herbicides. Only use 100 mL non-ionic surfactant (100%)/100 L water when mixing with diflufenican based products. Apply at 85 mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified. Refer to Minimum Oil Volumes section. <b>Cold water:</b> Under cold water conditions (10°C or less) DO NOT use D-C-Trate Spray Adjuvant, use Adigor or one of the other listed compatible alternatives.
			85 mL plus 500 mL Adigor/100 L water or similar compatible oil or 100 mL non-ionic surfactant (100%)/100 L water	2 leaf to mid tillering	

Crop	Weeds	States	Rate/ha	Weed Growth Stage	Critical Comments
<b>Wheat</b> 2 leaf to late jointing (GS12-37)	Paradoxa Grass ( <i>Phalaris paradoxa</i> ), Canary Grass ( <i>Phalaris minor</i> )	Qld, NSW, Vic, SA only	85 mL plus 500 mL Adigor/100 L water or similar compatible oil	2 to 3 leaf	<b>NOT TO BE MIXED WITH BROADLEAF HERBICIDES AT BELOW 160 mL/ha</b> Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing TOPIK with certain broadleaf weed herbicides some reduction in grass weed control may occur. Refer to Compatibility section. Unless otherwise specified always use Adigor or similar compatible oil when tank mixing broadleaf herbicides. Apply at 160 mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified. Refer to Minimum Oil Volumes section. <b>Cold water:</b> Under cold water conditions (10°C or less) DO NOT use D-C-Trate Spray Adjuvant, use Adigor or one of the other listed compatible alternatives.
			125 mL plus 500 mL Adigor/100 L water or similar compatible oil	2 to 5 leaf	
			160 mL plus 500 mL Adigor/100 L water or similar compatible oil	2 leaf to early tillering	
	Annual Ryegrass	NSW, Vic, SA, WA only	210 mL plus 500 mL Adigor/100 L water or similar compatible oil	2 leaf to early tillering	<b>MAY BE TANK MIXED WITH COMPATIBLE HERBICIDES</b> Apply in mixtures for broadleaf weed control only when weeds are actively growing. When mixing TOPIK with certain broadleaf weed herbicides some reduction in grass weed control may occur. Refer to Compatibility section. Unless otherwise specified always use Adigor or similar compatible oil when tank mixing broadleaf herbicides. Apply at 210 mL/ha when weeds are not actively growing. Where low water volumes are used, DO NOT use less than the minimum oil volumes specified. Refer to Minimum Oil Volumes section. <b>Cold water:</b> Under cold water conditions (10°C or less) DO NOT use D-C-Trate Spray Adjuvant, use Adigor or one of the other listed compatible alternatives.

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

#### WITHHOLDING PERIOD

**Harvest: NOT REQUIRED WHEN USED AS DIRECTED**

**Grazing: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION**

#### GENERAL INSTRUCTIONS

TOPIK 240 EC Selective Herbicide should be applied only when weeds are actively growing.

#### Mixing

Fill the spray tank to one quarter full. Then add TOPIK while adding water to make up the final spray volume. Pour TOPIK into the stream of incoming water. Good agitation at the time TOPIK is added to the tank will ensure good mixing. Add the required amount of Adigor or similar compatible oil just before the tank is full of water and with the agitators in motion.

#### Mixing order

Some products may react with other products if they are not mixed in the correct order. The general mixing order of products should be

1. Water conditioners or buffers
2. Water dispersable granules (WG)
3. Wettable powders (WP)
4. Flowable or suspension concentrates (SC)
5. Emulsifiable concentrates (EC) (TOPIK)
6. Water based or soluble concentrates
7. Oils and wetters, eg Adigor, BS 1000 Bio-Degradable Surfactant

It is important to ensure that each individual component of the tank mix is fully dissolved and in solution before the next product is added to the tank mix, otherwise mixing problems may occur.

## Minimum Oil Volumes

The minimum amount of oil to be applied with TOPIK will depend on the type of oil used. When applying TOPIK using low water volumes, DO NOT use less than the minimum oil volumes specified below.

- For oils normally applied at 1% v/v (eg D-C-Trate), DO NOT apply less than 500 mL oil/ha
- For oils normally applied at 0.5% v/v (eg Adigor), DO NOT apply less than 250 mL oil/ha

## Compatibility

When TOPIK is applied with compatible herbicides, always use a recommended oil, such as Adigor, D-C-Trate\* Advance Spray Adjuvant, Hasten\* Spray Adjuvant or Uptake\* Spraying Oil at 500 mL/100 L water, or D-C-Trate Spray Adjuvant at 1 L/100 L water. Only use a 100% non-ionic surfactant when mixing with diflufenican based products.

**Broadleaf Herbicides:** Some broadleaf weed herbicides are incompatible with TOPIK because they reduce the effectiveness of TOPIK or because in mixture they may cause crop yellowing. For the latest information on compatibility of TOPIK with broadleaf herbicides refer to the TOPIK Compatibility Chart available from your local reseller, Syngenta representative or the Syngenta web site, [www.syngenta.com.au](http://www.syngenta.com.au)

**Grass Herbicides:** TOPIK is compatible with diclofop methyl, eg Nugrass\* Selective Herbicide.

**Incompatible Herbicides:** The following herbicides are known to be incompatible with TOPIK. 2,4-D, bromoxynil + dicamba + MCPA formulations, diuron and Logran® 750WG Selective Herbicide. Herbicides which are incompatible with TOPIK must be applied separately. In this situation, apply TOPIK first and then allow at least 10 days between its application and application of the broadleaf weed herbicide.

**Insecticides:** TOPIK is compatible with Supracide® 400 Emulsifiable Concentrate Insecticide.

## Application

**Ground Application:** Boom spray with flat fan nozzles. Ensure good spray coverage is obtained. Apply using 50 to 110 L water/ha. A medium to coarse spray quality applied at a minimum of 80 L/ha is recommended.

**Aircraft Application:** For best results use 30 L water/ha and spray at 2 to 3 m above the crop. A medium to coarse spray quality is recommended. Avoid applying TOPIK if wind speeds are greater than 5 m/second. If spraying in calm conditions use larger droplets and reduce flying height. DO NOT spray when there is risk of an inversion.

## Cleaning Spray Equipment

After using TOPIK, 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.

**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.

**Decontaminate:** Before spraying cereals (except wheat), maize, sorghum or other sensitive crops, wash the tank and rinse the system as above. Drain and repeat the rinsing procedure. Then quarter fill the tank and add a liquid alkali detergent (eg Drive\*, Surf\*, OMO\*) at 0.5 L/100 L of water and circulate throughout the system for at least 15 minutes. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain. Dispose of all water used for cleaning in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots.

## Resistant Weeds Warning

GROUP	A	HERBICIDE
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TOPIK Selective Herbicide is a member of the aryloxyphenoxypropionate ("fop") group of herbicides. TOPIK has the inhibition of fat (lipid) synthesis, (or inhibitors of acetyl CoA carboxylase) mode of action. For weed resistance management TOPIK is a Group A herbicide. Some naturally occurring weed biotypes resistant to TOPIK and other Group A 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 resistant weeds will not be controlled by TOPIK or other Group A herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Syngenta Australia Pty Ltd accepts no liability for any losses that may result from the failure of TOPIK to control resistant weeds.

**Weed biotypes resistant to diclofop-methyl and other grass specific herbicides can also often be resistant to TOPIK. Before using TOPIK on a population resistant to or suspected to be resistant to grass specific herbicides, have a resistance test conducted to ensure that it is susceptible to TOPIK.** 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 one application of a Group A herbicide with the inhibition of fat (lipid) synthesis (or inhibitors of acetyl-CoA carboxylase) 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, TOPIK or other Group A 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. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local Syngenta representative for details.

## **PRECAUTION**

**Re-entry Period:** DO NOT enter treated areas without protective clothing until the spray has dried.

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

DO NOT apply on or near shrubs, trees, lawns or crops other than 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.

DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.

DO NOT allow spray to drift onto adjacent fallow land.

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

DO NOT apply to irrigation drains or channels.

DO NOT contaminate dams, streams, creeks and rivers with the chemical, spray mixture, used containers or equipment washings.

## **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 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.

## **SAFETY DIRECTIONS**

**Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid inhaling spray mist. Avoid contact with eyes and skin. When opening the container and preparing spray wear:**

- cotton overalls buttoned to the neck and wrist (or equivalent clothing)
- a washable hat
- elbow-length PVC gloves
- face shield or goggles

**If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with 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 131 126. If swallowed, DO NOT induce vomiting. Give a glass of water. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.**

## **MATERIAL SAFETY DATA SHEET**

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy phone 1800 067 108 or visit our website at [www.syngenta.com.au](http://www.syngenta.com.au)

## **DISCLAIMER**

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.

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