



# Speedo®

## SPRAY ADJUVANT



Biodegradable

**A Penetrating Esterified Spray Oil (Methyl and Ethyl Esters of Fatty Acids) to enhance the activity of certain Herbicides, Insecticides, Fungicides and Desiccants.**

The combined effects of the esterified vegetable oil in combination with the wetting and fast spreading characteristics of the non-ionic surfactants in **SPEEDO®** give excellent spreading and penetration through waxy plant cuticles. These properties enhance the performance of products that specify an oil-based adjuvant. **SPEEDO** will also reduce spray droplet evaporation rates.

### **Benefits over Hasten®:**

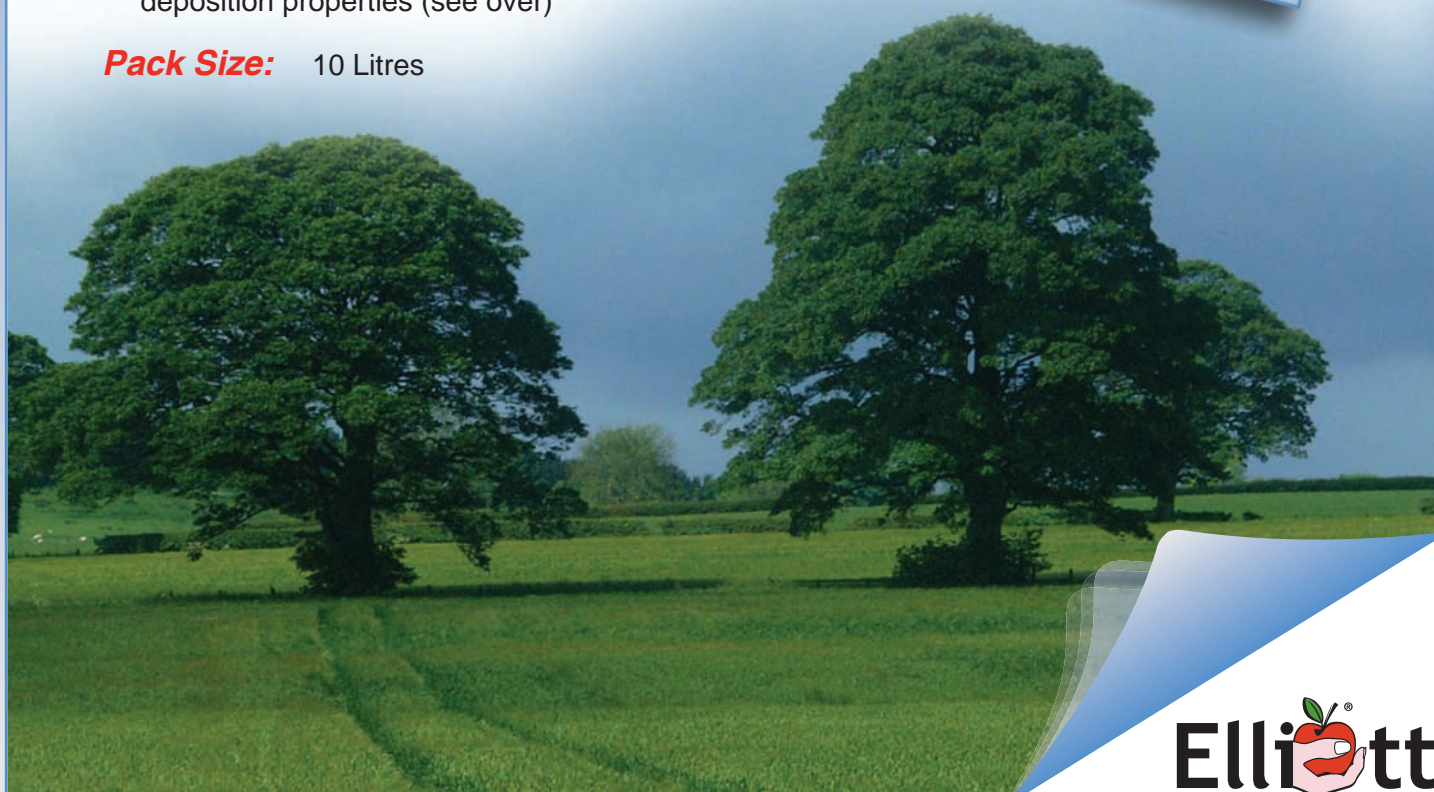
- **SPEEDO** does not contain Nonyl-phenol ethoxylate
- **SPEEDO** has superior adhesion and deposition properties (see over)

**Pack Size:** 10 Litres



### **Benefits**

- **Wetter** – For better coverage
- **Penetration** – Fast uptake through the wax cuticle
- **Anti-evaporation** – longer droplet life, more chemical uptake
- **Drift reduction**
- **Cold water stability**
- **Canola oil extract** – renewable resource

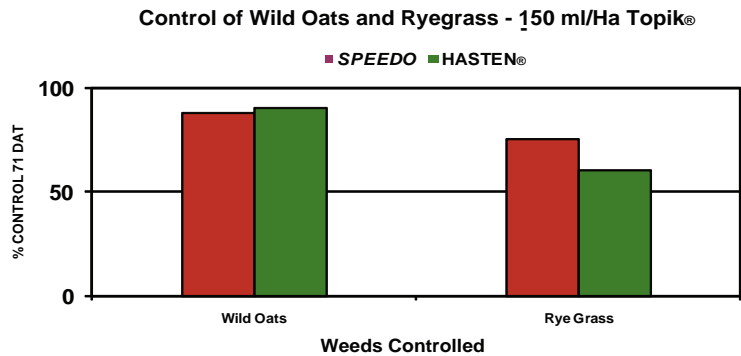
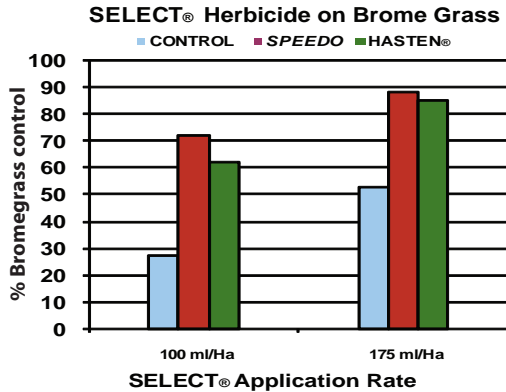




**PPCNZ Trial August 2009**

Droplet spreading and adhesion on adaxial surface of cabbage seedling leaves

	Spread Area (mm <sup>2</sup> )	Adhesion %	Mean droplet size
<b>SPEEDO®</b>	1.9	63	703
<b>Hasten®</b>	2.2	7	702
<b>Peptoil®</b>	2.3	50	652



**ESO/MSO products disrupt wax cuticles FAST for improved uptake**

Exposure Interval (mins) →	0	5	10	20	40	24 hours
Distilled Water	0	0	0	0	0	0
Petroleum Oil	0	0	0	2.5	2.5	9
Sunflower Oil	0	0	0	0	2.5	6
Methylated Seed Oil	2.5	5	6.5	9	10	10

Evaluation scale: 0 = no solubility, 10 = totally dissolved. *Manthey, F.A. and J.D. Nalewaja, N.S.D.U. – Fargo, ND*

**Crop Safety:**

In some situations **SPEEDO** may reduce crop selectivity of certain herbicides. Care must be exercised when applying **SPEEDO** on sensitive crops when grown under drought stress, high temperatures and high humidity. If selectivity is in doubt, test on a small area before treating larger areas. Note crop safety statement on agrichemical label.

**Directions:**

Follow all directions for use on the **SPEEDO** label and on the pesticide label. The pesticide manufacturers recommendations and directions take precedence over directions contained on this label.

**Recommendations:**

**SPEEDO** can be used wherever an oil-based adjuvant is recommended on the agricultural label, unless use of an esterified seed oil (ESO/MSO) is specifically excluded. Use 250 ml/100L when applying sprays on sensitive crops in high water volumes. For lower water volume spraying, use 500 ml/100L of water.

<b>Desiccants</b>	Use 500ml to 2L /100L of water	<b>SPEEDO</b> may be used in the place of crop oils. Use of the higher rate may be required when plants are subject to severe stress.
<b>Fungicides</b>	Use 250ml to 500ml /100L of water	Use where penetration and spread enhancement is required, eg. on vegetable crops such as onions. Use the higher rate in low water volumes.
<b>Herbicides</b>	Use 250ml to 500ml /100L of water	For selective herbicides. Use the higher rate in low water volumes.
	Use 500ml to 1L /100L of water	Use where a higher rate of oil or ESO/MSO is recommended on the product label. May be used with grass herbicides such as Aramo® and with herbicides such as Spinnaker®, Topik® and Twinax®.
<b>Insecticides</b>	Use 250ml to 500ml /100L	<b>SPEEDO</b> may be applied with a range of insecticides to improve spreading and cuticular uptake, eg. Ascend®, apply as per label directions for recommended Esterified Seed Oil (ESO/MSO) products.

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