

PEEL  
HERE

KEEP OUT OF REACH OF CHILDREN

# SHARK<sup>®</sup>

## Innovative Weed and Sucker Management in Vines

For use with knock down herbicides in horticulture including orchards and vineyards to improve control of certain broadleaf weeds including mallows. Applied alone through shielded spray equipment for de-suckering of grapevines and for shoot control in hops and primocane control in brambles and cane fruit. For desiccation of potato haulms.

Contains :  
60 g/L carfentrazone-ethyl  
in the form of an micro-emulsion.

HERBICIDE



AGRECOVERY

Registered By:  
Elliott Technologies Limited  
P.O.Box 838, Pukekohe, New Zealand.  
Phone: 0800 100 325 [www.elliott-technologies.co.nz](http://www.elliott-technologies.co.nz)



NET CONTENTS:  
**5 Litres**

Elliott<sup>®</sup>

## PRODUCT INFORMATION:

**Shark®** is a fast acting contact herbicide that desiccates and controls weeds through a process of membrane disruption. **Shark** is rapidly absorbed through the foliage and green stems of plants. Within a few hours following application, the foliage of susceptible plants show signs of desiccation and then death of the weed or plant tissue follows within a few days.

**Shark** may be used for the desiccation of Potato haulms, for de-suckering Grape vines and Hops and it may be added to contact and systemic herbicides to speed up knockdown and improve the control of certain broadleaf weeds.

Application of **Shark** for broadleaf weed control should target small actively growing weeds. Under warm moist conditions, herbicide symptoms may be accelerated, while under very dry or cold conditions, the expression of herbicidal symptoms is slowed. Weeds hardened off by drought are less susceptible to **Shark**.

## APPLICATION PRECAUTIONS

Drift Management: **Shark** will clearly demonstrate any off target drift into the canopy of trees, vines or other non target vegetation by way of brown pin spots (drifted fines) or brown blotches (drifted large droplets or spray). Follow all precautions on this label to minimise off target drift. Drift management is the responsibility of the applicator.

Caution; Use of <b>Shark®</b> in Orchards and Vineyards
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**Shark** is a contact herbicide and may cause damage if off target drift occurs. Do not allow drift on to crops as 'spotting' can occur.

Guidelines to manage spray drift include;

- A shielded sprayer with air induction nozzles are recommended.
- Apply through a calibrated sprayer with correct nozzles and spacing. Use the lowest boom height possible appropriate to the target plant size.
- Use recommended nozzle pressure to produce a medium to large droplet size.
- If flat fan nozzles are to be used the addition of **LI700** may help minimize production of fine droplets.
- Apply under good conditions (not too windy or dead calm).

Least	Nozzle Drift Potential			Most
Air Induction	80° Flat Fan	110° Flat Fan	XR Flat Fan	Hollow Cone

**Rainfall and Irrigation:** Do not apply within 1 hour of rainfall or Irrigation.

## DIRECTIONS FOR USE:

Mixing: Half fill the spray tank and start agitation. Add the required amount of Shark directly into the water. When applied in mixtures, add the **Shark** first followed by the required amount of companion herbicide. Complete filling the spray tank and maintain agitation until spraying is complete.

**APPLICATION: Shark** in mixture with a companion herbicide may be applied through any conventional spray equipment that does not produce off target spray drift. Apply in sufficient water to obtain complete coverage of all parts of the weeds. **Only apply Shark pre sowing of the crop for general weed control and seed bed preparation.**

## COMPATIBILITY

For most weed control uses, **Shark** should be tank mixed with formulations of knockdown herbicides including any **Roundup**® formulations, other products based on glyphosate, **Gramoxone**®, **Preglone**®, **Buster**®, **Touchdown**®, **Amitrole** and other herbicides. Follow all precautions for use on the companion product label.

**Shark** should not be applied in spray mixtures that have a pH below 5 or above 8. **LI 700**® may be added to acidify high pH water, to aid in drift control and to improve efficacy in many situations.

**TANK CLEANING: Shark** is a very sticky product that will adhere to tank walls and may therefore cause crop damage if not fully removed before using sprayers for selective weed control or the application of Fungicides, insecticides etc. After spraying with Shark: Add 500 ml **All-Clear**® per 100 litres of water and circulate through the spray tank and all spray lines. Allow to stand for 15 minutes, then empty the tank by spraying out through nozzles and lines.

Should small quantities of **Shark** remain in inadequately cleaned mixing, loading and/or spray equipment, they may be released during subsequent applications potentially causing effects to sensitive crops and other vegetation. To ensure residue and deposit removal allow **All-Clear** mixture to stand overnight in lines and tank. This applies particularly to aged and perished spray hoses and lines. This treatment can remove any residues of Shark in the spray rig.

Do not apply sprayer cleaning solutions or rinsate to sensitive crops.

## Recommendations

SITUATION	RATES	REMARKS
Grape Vines Control of unwanted suckers (water shoots) arising from the main stem or trunk	Apply 300ml / 100 Litres of water.  A minimum spray volume of 50 - 100 Litres per kilometre of row (both sides sprayed) is recommended. Use the higher water rate on more developed suckers.  NOTE Application through a shrouded sprayer only.	<b>Mandatory Directions:</b> Only apply to Grape vines through a shielded / shrouded sprayer that stops any drift onto foliage or fruit. Off-target drift of Shark will cause marked damage to leaves, green stems, flowers and fruit. <b>Note spray and sprayer advice below.</b> Apply to suckers less than 300 mm long, before any lignification is present on the sucker growth. Application of Shark to suckers (water shoots) arising from the main stem will result in rapid burn down and extended control of regrowth. Any regrowth may be less vigorous but may need a repeat application for season long control. Suckers arising from pruned stubs may be less well controlled. More vigorous varieties and grafted vines on vigorous rootstocks may need several applications depending on the growth conditions. <b>Sprayer Advice:</b> <i>Use nozzles that produce</i>

SITUATION	RATES	REMARKS
		<p><i>a Coarse spray quality (greater than 450 microns) with a maximum angle of 80°.</i></p> <p><b>Low drift nozzles or air induction nozzles are preferred. If other nozzles are used, the use of LI 700 at 250 ml/100 litres is recommended to aid in the control of drift.</b> Operate sprayer at the lowest pressure prescribed for the nozzles used.</p> <p><i>The optimum nozzle configuration is to have nozzles pointing forwards and backwards to ensure all surfaces of the shoots are sprayed. Use sufficient spray volume to ensure that the spray solution thoroughly wets the foliage and stems of unwanted shoots. The spray must be directed downwards and away from the canopy foliage to minimise or prevent off-target drift. Do not apply to vines less than 2 years old or vines with green bark unless protected from the spray solution by a physical barrier.</i></p>
<p><b>Berryfruit- Raspberries and Brambles Primocane control</b></p>	<p>300 – 400ml / 100 Litres of water. Do not add any other products to the spray mix unless specified.</p>	<p>Applied in sufficient water to ensure complete coverage of primocanes. Apply to primocanes not exceeding 25cm in length as a directed high volume spray. Avoid drift onto foliage of fruiting canes. Use the higher rate on vigorously growing crops. Do not apply to plants before the first primocanes for the season have reached 15 cm in height. Do not apply to plants under stress.</p> <p><b><i>Low drift nozzles or air induction nozzles are preferred. If other nozzles are used, the use of LI 700 at 250 ml/100 litres is recommended to aid in the control of drift.</i></b></p>
<p><b>Hops Sucker control</b></p>	<p>300 – 400ml / 100 Litres of water. Do not add any other products to the spray mix unless specified</p>	<p><b>Mandatory Directions:</b> Only apply to Hops through a shielded / shrouded sprayer that stops any drift onto foliage or fruit. Serious drift damage may otherwise occur. Note spray and sprayer advice under Grape vines. Apply as a directed spray to shoots. Do not treat before Hops are 2 metres tall and spray not more than 1 metre from the base of the</p>

SITUATION	RATES	REMARKS
		<p>plant. Repeat as required. Use the high rate on vigorous plants. <i>Low drift nozzles or air induction nozzles are preferred. If other nozzles are used, the use of LI 700 at 250 ml/100 litres is recommended to aid in the control of drift.</i></p>
<p>Seed Potato Haulm Desiccation</p>	<p>1 Litre Shark per hectare in sufficient water to achieve complete foliage and stem coverage.</p>	<p><b>Shark</b> is most active on the stems of Potatoes but may be applied to foliage of potatoes in the later stages of senescence to provide desiccation of potato foliage and vines. A second application at 7 days may be required on vigorous varieties e.g. Iam Hardy. If the crop is in the active vegetative growth stage when desiccation is initiated first destroy the foliage with a knock down desiccant such as <b>Desiccate® II</b> or <b>Reglone®</b>. Apply <b>Shark</b> 7 days later ensuring thorough coverage of the stems. A second application at 7 – 14 days may be required on vigorous varieties e.g. Iam Hardy. DO NOT APPLY To TABLE POTATOES</p>
<p>General weed control, Weed control in Orchards, Vineyards and for groundseed bed preparation.</p>	<p>Apply 200-400ml per hectare in mixture with recommended label rates of <b>Roundup®</b>, <b>Buster®</b>, <b>Touchdown®</b> or <b>Preaglone®</b> or other products based on amitrole or glyphosate.</p> <p>Spot spraying 40mL/100 L plus recommended label spot spray rates of knockdown herbicides.</p>	<p>Addition of <b>Shark</b> to knockdown herbicides will increase the speed at which treated broadleaved weeds in general develop visible symptoms (compared to results achieved with knockdown herbicides applied alone) and may improve final control of broadleaved weeds including certain hard-to-kill weeds, mallows in particular.</p> <p>Use the lower rates on younger plants or plants growing under good conditions and the higher rates on older plants or plants growing under less optimum conditions. The lower rate may only provide suppression of some broadleaf weeds– older or stressed plants may not be adequately controlled. Application to hardened weeds or drought stressed weeds especially under summer conditions may cause only localised injury to weed foliage which may not enhance final weed control. Mallow growing and sprayed in the summer is especially prone to drought stress and may either not show symptoms</p>

SITUATION	RATES	REMARKS
		typical of <b>Shark</b> or may regrow following treatment although plants did not appear very stressed at application. Apply only as a tank mix with recommended rates of knockdown herbicides. Refer to the appropriate label for weed sizes and follow all label directions. <b>When using Shark® as a spot spray, apply in sufficient water to thoroughly wet all weed foliage to the point of run-off.</b>

**Note: Beware: Apply this product carefully. Spray drift may cause serious damage to other desirable plants.**

**Withholding Periods:**

Grapevines	<b>30 Days</b>
Hops	<b>30 Days</b>
Berryfruit-Raspberries and Bramble	<b>21 Days</b>
Potatoes	<b>14 Days. Do not spray on crops with exposed tubers.</b>

**Do Not Graze. Must not be applied to areas that may be grazed by animals for 14 Days.**

**Exclusion of Liability: Please Read**

To the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Elliott Chemicals Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

See [www.nzfsa.govt.nz/acvm/](http://www.nzfsa.govt.nz/acvm/) for registration conditions.

When stored appropriately, this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

Shark is a trademark of FMC Corporation, USA

LI700 is a Trademark of Loveland Industries Inc., USA.

Roundup® is a trademark of Nufarm

Buster® is a trademark of Bayer AG

Touchdown® Preeglone® and Reglone® are trademarks of Syngenta

Desiccate II is a trademark of United Phosphorus Limited

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All Clear is a trademark of Amega Sciences Ltd.

# ECOTOXIC

**HSNO Class: 3.1D, 6.3B, 6.4A, 6.9B, 9.1A, 9.2A**

**Approved Handler Applies**

This product must be under the control of an approved handler or secured.

**ENVIRONMENTAL WARNING:** TOXIC TO AQUATIC LIFE. TOXIC TO FISH. DO NOT apply to bodies of water. DO NOT contaminate sewers, drains, dams, creeks or any other waterways with product or empty container.

**HEALTH WARNING:** Toxic if ingested, Presumed to cause liver damage from repeated oral exposure at high doses. May cause eye and skin irritation.

**PRODUCT DISPOSAL:** Ensure unwanted product is used by another operator strictly in accordance with label directions.

**CONTAINER DISPOSAL:** Triple rinse container and add residue to spray tank. Recycle through the Ag Recovery programme.

**HANDLING PRECAUTIONS:** When mixing or applying, wear protective clothing, gloves and goggles. Do not eat drink or smoke while using. Wash hands and face before meals and after work. Wash protective clothing after work.

**STORAGE:** Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. This product is classified under **HSNO** as **6.1D** and **9.1A**, and storage of certain quantities may require bunding and signage. See the **HAZNOTE** for further information.

When stored appropriately this product should show no significant degradation for 2 years. Contact your supplier for further information about the use of any product that is older than this.

**FIRST AID:** If swallowed do NOT induce vomiting. For advice, contact the **National Poisons Centre 0800 POISON (0800 764 766)** or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

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HSNO Approval Code HSR 007883

Batch No.

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