

**WARNING** Keep out of reach of children. **ECOTOXIC COMBUSTIBLE LIQUID - KEEP AWAY FROM SOURCES OF IGNITION**

HSNO Class: 3.1D, 6.1E, 6.3B, 6.4A, 6.9E, 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 6.1E 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 from date of manufacture. 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.

**PRODUCT INFORMATION:**  
**HAMMER®** is a fast acting contact herbicide that desiccates and controls weeds through a process of membrane disruption. **HAMMER** is rapidly absorbed through the foliage and green stems of plants. The foliage of susceptible plants shows signs of desiccation within a few hours following application. Death of the weed or plant tissue follows within a few days.  
**HAMMER** may be added to contact and systemic herbicides to speed up knockdown and improve the control of certain broadleaf weeds and also for the desiccation of Potato haulms.  
Application of **HAMMER** for broadleaf weed control should target small actively growing weeds. Under warm moist conditions, herbicide symptoms may be accelerated, while under very dry and cold conditions, the expression of herbicidal symptoms is slower. Weeds hardened off by drought are less susceptible to **HAMMER**.

**APPLICATION PRECAUTIONS**  
**Drift Management:** **HAMMER** will clearly demonstrate any off target drift into 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.

- Cautions: Use of **HAMMER®** around non-target plants
- 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).

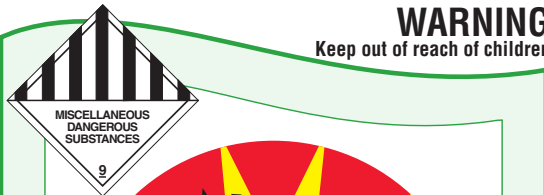
Least	Nozzle Drift Potential		Most	
Air Induction	800 Flat Fan	1100 Flat Fan	XR Flat Fan	Hollow Cone

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

Registered pursuant to ACVM Act 1997, No.P7122 HSNO Approval Code HSR000436

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©1 and Actiwett® are Registered trademarks of Elliott Technologies Limited  
All-Clear and LI700 are trademarks of Loveland Industries Inc., USA  
Touchdown®, Preeglone® and Reglone® are trademarks of Syngenta  
Desiccate II is a trademark of United Phosphorus Limited

Buster® is a trademark of Bayer AG  
Roundup® is a trademark of Nufarm



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A herbicide for use in mixtures with systemic and knockdown herbicides to improve the range of weeds controlled and speed of knockdown and also for desiccation of Seed Potato Haulms .

Read the Label Carefully before use

**Contains:**  
240 g/litre carfentrazone-ethyl in the form of an emulsifiable concentrate  
Also contains 727 g/litre hydrocarbon liquid.

**NET CONTENTS:**  
1 Litre



Registrant:  
Elliott Technologies Limited  
Box 838 Pukekohe  
New Zealand  
**Phone: 0800 100 325**  
[www.elliott-technologies.co.nz](http://www.elliott-technologies.co.nz)



**DIRECTIONS FOR USE:**  
**MIXING:** Avoid the overnight storage of **HAMMER** spray mixtures. Half fill the spray tank and start agitation. Add the required amount of **HAMMER** directly into the water followed by the required amount of companion herbicide. Complete filling the spray tank and maintain agitation until spraying is complete.  
**HAMMER** should not be applied in spray mixtures that have a pH below 5 or above 8. LI 700® **HAMMER** may be added to acidify high pH water, to aid in drift control and to improve efficacy in many situations.  
**APPLICATION:** **HAMMER** 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 **HAMMER** pre sowing of the crop.  
**COMPATIBILITY:** For most weed control uses, **HAMMER** should be tank mixed with other herbicides including any Roundup® formulations, other products based on glyphosate, Gramoxone®, Preeglone®, Buster®, Touchdown®, Amitrole and other herbicides. Follow all precautions for use on the companion product label.  
**TANK CLEANING:** **HAMMER** 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 **HAMMER**: 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 the boom or gun. Should small quantities of **HAMMER** 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 **HAMMER** in the spray rig. **Do not apply sprayer cleaning solutions or rinse to sensitive crops**

Situation	Rate	Remarks
<b>General weed control and for ground preparation pre planting of crops</b>	<b>Broadcast Application:</b> Apply 50 – 100 ml / ha in mixture with the recommended label rates of Roundup®, Buster®, Touchdown®, Preeglone® or other products based on amitrole or glyphosate.	The addition of <b>HAMMER</b> to other herbicides will increase the speed at which treated broadleaved weeds 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. 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 typical of <b>HAMMER</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 HAMMER as a spot spray, apply in sufficient water to thoroughly wet all weed foliage to the point of run-off.</b>
<b>For application Pre-cultivation or Prior to Direct Drilling</b>	<b>Spot Spraying:</b> Apply 10 ml/100 L plus the recommended label rate for spot spraying of the companion herbicide.	
<b>General weed control in industrial and commercial situations</b>	LI 700® may be added at 250 ml/100 litres to aid with drift control	
<b>Seed Potato Haulm Desiccation</b>	250 ml /ha plus 1 litre Peptol® /ha in sufficient water to achieve complete foliage and stem coverage. The addition of Actiwett® non-ionic surfactant at 25 ml/100 litres of spray mix is recommended.	<b>HAMMER</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. Ilam Hardy. If the crop is in the active vegetative growth stage when desiccation is initiated first destroy the foliage mechanically or with a knock down desiccant such as Desiccate® II or Reglone®. Apply <b>HAMMER</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. Ilam Hardy.

**Note:** Beware: Apply this product carefully. Spray drift may cause serious damage to other desirable plants.  
**COMPATIBILITY:** Compatible with most commonly available herbicides.  
**WITHHOLDING PERIOD:** Seed Potatoes: 14 Days. Do not spray on crops with exposed tubers. General Weed Control: 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 Technologies 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.

**24 Hour emergency response**  
0800 CHEM CALL  
0800 236 2255

Batch No.:  
DOM:

EL221



132mm deep

- Dieline
- Process Yellow
- PMS 362
- PMS 485
- Black

263mm wide