

Tropotox

A soluble concentrate formulation containing 400 g/l (34.8% w/w) MCPB present as 438 g/l (38.1% w/w) MCPB as the sodium salt.

For the control of broad-leaved weeds in peas.

PRODUCT BENEFITS

- Control of some major broad-leaved weeds including Charlock, Fat hen, Corn buttercup, Dock and Thistles in peas.
- A useful product to follow a pre-emergence treatment in peas.
- No following crop restriction.
- One of very limited number of options post emergence in peas.

LERAP category: Unclassified

Pack size: 10 litres

Storage: PROTECT FROM FROST



Grow a better tomorrow.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.

Crop	Maximum individual dose	Maximum number of treatments	Latest time of application
Combining pea Vining pea	4.5 l/ha	One per crop	Flower bud enclosed stage

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS. MAPP 14450

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

RESTRICTIONS

DO NOT roll or harrow crops within 10 days of spraying.

DO NOT apply during cold weather or drought.

DO NOT apply during rain or if rain is expected.

DO NOT spray in windy weather and avoid drift onto broad-leaved plants outside the target area.

DO NOT apply immediately before or after sowing any crop.

DO NOT use TROPOTOX on peas grown for seed.

DO NOT use TROPOTOX on beans, vetches, lucerne or yellow trefoil.

WEEDS CONTROLLED

TROPOTOX applied at 4.5 l/ha will control those annual weeds as indicated in the weed control table.

TROPOTOX should be applied when the crop is actively growing and is at the correct growth stage. The best results will be obtained if spraying is done while the majority of annual weeds are at the seedling stage and perennials when the flower bud is forming.

ANNUAL WEED CONTROL

Susceptible

Buttercup	<i>Ranunculus spp</i>
Fat hen	<i>Chenopodium album</i>
Mustard, black	<i>Brassica nigra</i>
Nettle, small	<i>Urtica urens</i>
Pennycress, field	<i>Thlaspi arvense</i>
Plantains	<i>Plantago species</i>
Shepherd's purse	<i>Capsella bursa pastoris</i>

Moderately susceptible

Effective control of seedlings but not necessarily complete control.

Charlock	<i>Sinapis arvensis</i>
Fumitory, common	<i>Fumaria officinalis</i>
Hemp-nettle, common	<i>Galeopsis tetrahit</i>
Mustard, treacle	<i>Erysimum cheiranthoides</i>
Poppy, common	<i>Papaver rhoeas</i>
Sowthistle, prickly	<i>Sonchus arvensis</i>
Sowthistle, smooth	<i>Sonchus oleraceus</i>
Volunteer oilseed rape	<i>Brassica napus</i>

Moderately resistant

Temporary suppression of seedlings, long term control dependant on crop competition and weather.

Orache, common	<i>Atriplex patula</i>
Cranesbill	<i>Geranium sp</i>
Knotgrass	<i>Polygonum aviculare</i>
Mustard, white	<i>Sinapis alba</i>
Pimpernel, scarlet	<i>Anagalis arvensis</i>
Turnip, wild	<i>Brassica rapa</i>

PERENNIAL WEED CONTROL

The following perennial weed species will be controlled by applications of 4.5 l product/ha as indicated.

Weed	Species	Seedlings	Shoots	Long term
Bindweed, field	<i>Convolvulus arvensis</i>	MS	MS	R
Buttercup, bulbous	<i>Ranunculus bulbosus</i>	S	MS	R
Buttercup, creeping	<i>Ranunculus repens</i>	S	S	MS
Crows foot	<i>Ranunculus acris</i>	S	MS	MS
Dock, broadleaved	<i>Rumex obtusifolia</i>	S	MR	R
Dock, curled	<i>Rumex crispus</i>	S	MR	R
Horsetail, field	<i>Equisetum arvense</i>	MS	MS	R
Horsetail, marsh	<i>Equisetum palustre</i>	S	S	R
Plantain, greater	<i>Plantago major</i>	S	S	S
Plantain, hoary	<i>Plantago media</i>	S	S	S
Plantain, ribwort	<i>Plantago lanceolata</i>	S	S	S
Sowthistle, perennial	<i>Sonchus arvensis</i>	MR	MR	R
Thistle, creeping	<i>Cirsium arvense</i>	S	MS	R
Thistle, spear	<i>Cirsium vulgare</i>	S	S	MS

S = Susceptible: complete or almost complete kill. MS = Moderately susceptible: effective suppression with or without mortality. MR = Moderately resistant: temporary suppression, the duration and degree depending on the vigour of the crop and the weather. R = Resistant: no useful effect.

CROP SPECIFIC INFORMATION

Varietal susceptibility

TROPOTOX may be used on the following varieties of peas:

Combining peas

Agadir	Bonanza*	Elan	Maro	Rex
Alfetta*	Bunting	Espace	Mascot*	Rhino
Arena	Carerra	Flare	Nitouche	Selector
Arrow*	Chorale	Focus	Princess	Solara
Ascona	Corfu*	Grafila	Quasar*	Supra
Baccara	Cossack*	Guido*	Radley*	Toskana*
Badminton	Croma	Hampton	Rafale*	Vital*
Beluga*	Eagle	Jackpot*	Rambo	Woodcock
Bohatyr*	Eiffel	Lantra	Ramrod*	

Vining peas

Argona*	Endeavour*	Legacy	Puget	Skinado
Balmoral	Enterprise*	Lynx	Purser*	Snake
Banff	Gemini	Markado	Rampart	Stampede
Barle	Griffin*	Markana	Remus	Swallow
Bastion	Harrier	Minnnow*	Ripon*	Temptation
Bikini	Hunter	Multistar	Salsado	Tristar
Brule	Hurst Green Shaft	Novella	Samish	Tyne
Cabree	Jaguar	Oasis	Sancho	Vada*
Cash*	Jewel*	Pacha	Saturn*	Visto
Colana	Jof	Pinnacle*	Scout	Waverex
Coral	Johnson's Freezer	Point*	Sherbourne	Waverking
Destiny	Kermit*	Polo	Sigra	

Picking peas

Early Onward	Feltham First	Kelvedon Wonder	Onward	Progress No 9
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Pigeon feed peas/forage peas

Courier*	Salome	Setchey	Swift*
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Winter combining peas*

Aravis	Dove	Husky	Rafale	Victor
Brevent	Froidure	Iceberg	Spirit	Volcano
Cheyenne	Honor			

The following varieties of vining pea are slightly sensitive to TROPOTOX and should only be sprayed if significant infestations of weeds, particularly creeping thistle, docks or volunteer rape are present. Particular care should be taken to observe the correct crop growth stage at application.

Combining peas

Conquest	Honor*
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Vining peas

Alfold	Darfon	FR697	Premium	Sprite
Ambassador*	Hurst Beagle	Minado*	Reynard*	Style
Avola	Favorit	Misty	Span	Winner
Cobalt	Finess*	Paso	Sparkle	Zamira

Picking peas

Holiday*

Pigeon feed peas/forage peas

Minerva	Racer
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Winter combining peas*

Blizzard	Oscar
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* These are provisional recommendations based on two years of crop safety trials. Contact your supplier for further details.

For further information on varietal susceptibility consult PGRO.

Water volume

On peas use a rate of 200 to 400 litres of water per hectare.

Use a minimum rate of 225 l/ha in dense crops, or if weed growth is dense.

Spray quality

Apply as a MEDIUM quality spray (as defined by BCPC). A spray pressure of 2–3 bar is recommended.

Timing

TROPOTOX should only be applied to peas when the crop is at the correct growth stage.

Application should be made from when the crop has three nodes (three fully expanded leaves) until BEFORE the flower buds can be found enclosed in the folded terminal leaf.

Particular care should be taken when treating earlier flowering varieties to ensure that flower buds can not be detected at application.

Later applications made when the flower buds are present may result in reduced yield.

Crops suffering from drought stress may exhibit more visible crop damage or growth distortion.

MIXING

Apply using a conventional ground vehicle mounted/drawn equipment. Ensure that all application equipment is clean. Add half the required volume of water and start agitation, add

the required quantity of TROPOTOX. Fill the tank to the required volume of water whilst maintaining agitation. Continuous agitation must be maintained until spraying is complete. After use, the spraying machine must be thoroughly cleaned.

Wash equipment thoroughly with water and wetting agent or liquid detergent immediately after use. Wash out again with water, drain and allow drying.

Spray out, fill with clean water and leave overnight. Spray out again before storing or using for another product. Traces of TROPOTOX can cause harm to susceptible crops sprayed later.

COMPATIBILITY

Provided that all the product recommendations are followed, TROPOTOX may be tank mixed with the following products:

	Product	Active ingredient(s)
Herbicides	Skirmish	isoxaben + terbuthylazine
	Impuls	bentazone + pendimethalin

TROPOTOX

A soluble concentrate formulation containing 400 g/l (34.8% w/w) MCPB.

**DANGER**

Harmful if swallowed.

Causes serious eye damage.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/ protective clothing/ eye protection/face protection.

IF SWALLOWED: Call a POISON Centre or doctor/physician if you feel unwell.

Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

To avoid risks to human health and the environment, comply with the instructions for use.

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION FACESHIELD when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH CONCENTRATE from skin immediately.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY with plenty of water and seek medical advice.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating, drinking and after work.

Environmental protection

Do not contaminate surface water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

Storage and disposal

DO NOT RE-USE CONTAINER for any purpose.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.