



TROPOTOX[®]

MAPP 18309
PCS No 03525

A soluble concentrate formulation containing 400 g/L (34.5% w/w) MCPB present as 466.5 g/L (40.3% w/w) MCPB as the sodium salt for the control of broad-leaved weeds in peas.

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

Pack size: 1-20 L

Batch No.: XXXXX

**PROTECT FROM FROST
FOR PROFESSIONAL USE ONLY**

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Technical Helpline telephone number +44 (0)1274 694714
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Safety Information



DANGER

Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
Toxic to aquatic life with long lasting effects.

Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not eat, drink or smoke when using this product.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
Rinse mouth.

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

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IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops	Maximum Individual dose (L product/ha)	Maximum number of treatments	Latest time of application
Combining and Vining Peas	4.5 l/ha	1 per crop	Flower bud enclosed stage

Other Specific Restrictions:

Non-returnable containers must not be re-used for any purpose.

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.

Additional Safety Phrases

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).

SAFETY PRECAUTIONS – UK only

Operator Protection

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

WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHIELD) when handling the concentrate.

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 FEEDING STUFFS.

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.

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 product/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.

Some yellowing or bleaching of foliage may occur as a result of treatment. However, this effect is usually transient.

Care should be taken to avoid spray overlap, as crop damage may occur which may not be outgrown.

ANNUAL WEED CONTROL

Susceptible

Complete or almost complete control of seedlings

Black Mustard	<i>Brassica nigra</i>
Buttercups	<i>Ranunculus species</i>
Fat Hen	<i>Chenopodium album</i>
Field Penny-cress	<i>Thlaspi arvense</i>
Plantains	<i>Plantago species</i>
Shepherds Purse	<i>Capsella bursa pastoris</i>
Small Nettle	<i>Urtica urens</i>

Moderately Susceptible

Effective control of seedlings but not necessarily complete control

Charlock	<i>Sinapis arvensis</i>
Common Fumitory	<i>Fumaria officinalis</i>
Common Poppy	<i>Papaver rhoeas</i>
Common Hempnettle	<i>Galeopsis tetrahit</i>
Prickly Sow Thistle	<i>Sonchus arvensis</i>
Smooth Sow Thistle	<i>Sonchus oleraceus</i>
Treacle Mustard	<i>Erysimum cheiranthoides</i>
Volunteer Oilseed	<i>Brassica napus</i>

Moderately Resistant

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

Common Orache	<i>Atriplex patula</i>
Cranesbill	<i>Geranium sp</i>
Knotgrass	<i>Polygonum aviculare</i>
Scarlet Pimpernel	<i>Anagalis arvensis</i>
White Mustard	<i>Sinapis alba</i>
Wild Turnip	<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.

Common Name	Species Name	Seedlings	Shoots	Long Term
Creeping Thistle	<i>Cirsium arvense</i>	S	MS	R
Spear Thistle	<i>Cirsium vulgare</i>	S	S	MS
Field Bindweed	<i>Convolvulus</i>	MS	MS	R
Field Horsetail	<i>Equisetum arvense</i>	MS	MS	R
Marsh Horsetail	<i>Equisetum palustre</i>	S	S	R
Ribwort Plantain	<i>Plantago</i>	S	S	S
Greater Plantain	<i>Plantago major</i>	S	S	S
Hoary plantain	<i>Plantago media</i>	S	S	S
Crowfoot	<i>Ranunculus acris</i>	S	MS	MS
Bulbous Buttercup	<i>Ranunculus</i>	S	MS	R
Creeping Buttercup	<i>Ranunculus repens</i>	S	S	MS
Curled Dock	<i>Rumex crispus</i>	S	MR	R
Broadleaved Dock	<i>Rumex obtusifolia</i>	S	MR	R
Perennial Sow Thistle	<i>Sonchus arvensis</i>	MR	MR	R

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
Sd	Seedling plant	
Yp	Young plant	

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*	Grafilia	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	Minnow*	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	Point*	Sherbourne	Waverking
Destiny	Kermit*	Polo	Sigra	

Picking Peas

Early Onward	Feltham First	Kelvedon	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	Spirit
Brevent	Froidure	Iceberg	Victor
Cheyenne	Honor	Rafale	Volcano

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 of application

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 – UK only:

Tropotox can be tank-mixed with other pesticides, please consult your Nufarm distributor or Nufarm UK Limited.

TERMS AND CONDITIONS OF SUPPLY, SALE OR USE

All goods supplied by Nufarm UK Ltd are high grade and we believe them to be suitable for the purpose for which we expressly supply them: but as we cannot exercise any control over their mixing, use or application which may affect the performance of the goods all conditions and warranties statutory or otherwise as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us or our Associate

Companies for any damage or injury whatsoever arising from their storage, handling, re-application or use. These conditions cannot be varied by our staff, our agents or the re-sellers of the product whether or not they supervise or assist in the use of such goods.