

# Portman Trifluralin

**A residual herbicide for the control of annual grasses and many broad-leaved weeds in a wide range of crops.**

**Contains 480g/l Trifluralin (46.1% w/w)**

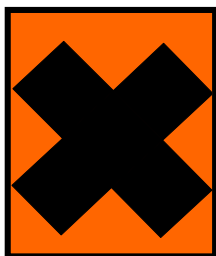
*The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.*

<b>STATUTORY CONDITIONS RELATING TO USE FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL HERBICIDE.</b>	
<p><b>FOR USE ON</b> <b>MAXIMUM DOSE</b> <b>MAXIMUM NUMBER OF TREATMENTS</b> <b>LATEST TIME OF APPLICATION OR HARVEST INTERVAL</b></p>	<p style="font-size: 3em;">}</p>
<p><b>Directions are given under DIRECTIONS FOR USE</b></p>	
<p>Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.</p> <p>WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling or applying the concentrate.</p> <p>However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.</p> <p>HARMFUL TO FISH: Do not contaminate ponds waterways and ditches with chemical or used containers.</p> <p>(MAFF05751) <span style="float: right;">READ ALL PRECAUTIONS BEFORE USE</span></p>	

**PRECAUTIONS**

- WHEN USING DO NOT EAT. DRINK OR SMOKE
- WASH CONCENTRATE from skin or eyes immediately
- AVOID ALL CONTACT BY MOUTH
- WASH HANDS AND EXPOSED SKIN before meals and after work
- KEEP AWAY FROM FOOD DRINK AND ANIMAL FEEDINGSTUFFS
- KEEP OUT OF REACH OF CHILDREN
- WASH OUT CONTAINER THOROUGHLY, empty washing into the spray tank and dispose of safely
- KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place

**PROTECT FROM FROST**  
**STORE ABOVE 5°C.**  
**FLAMMABLE**  
**10 Litres**



**IRRITATING TO EYES,  
SKIN AND  
RESPIRATORY SYSTEM**

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# Portman Trifluralin

## **DIRECTIONS FOR USE**

Portman Trifluralin is a soil incorporated or surface applied residual herbicide that controls susceptible weeds as they germinate. Established annual or perennial weeds are not controlled and if present must be controlled before or during the incorporation process.

## **SOIL TYPES**

Portman Trifluralin must NOT be used on Sands, (Coarse Sand to Loamy Coarse Sand, ADAS Soil Texture Classification) or on soils containing more than 10% organic matter. Where farmyard manure or other bulky organics are used, these must be buried to a depth of 150 mm before applying Portman Trifluralin. On very light and light soils the germination and early growth of treated crops may be reduced under adverse conditions such as very dry and/or cold weather.

## **SOWING AND PLANTING**

Crops may be sown or transplanted in treated soil as soon as convenient after herbicide incorporation. Care must be taken with the working depth of ridging and planting machinery to ensure that untreated soil is not brought to the surface otherwise poor weed control will result.

## **WEED CONTROL**

The following table shows weeds that are susceptible to Portman Trifluralin at 2.3 litres/ha

### Susceptible:

Annual Meadow-grass	Common Hemp-nettle	Ivy leaved-speedwell
Black-bindweed	Common Mouse-ear	Knotgrass
Black-grass	Fat-hen	Pale Persicaria
Common Chickweed	Field Pansy	Redshank**
Common Field-Speedwell	Henbit Dead-nettle	Scarlet Pimpernel

### Moderately Susceptible

Common Orache	Fumitory	Wild-oat*
Common Poppy	Red Dead-nettle	
Corn-spurrey	Small-nettle	

\* Wild-oats germinating below the treated area will not be controlled

\*\* Under very dry conditions, Redshank has the ability to germinate and grow from below the treated area.

Some susceptible broad-leaf weed species may germinate and reach the cotyledon stage but no further growth will occur then.

## **APPLICATION AND INCORPORATION**

Time the application of Portman Trifluralin to coincide with the final stages of seedbed preparation, when the soil is in a friable and workable condition. Work down to a rough tilth free from large clods.

Crops may be sown or transplanted up to 14 days after application.

## **MIXING**

Portman Trifluralin should be applied in water volumes of 220-440 litres of water per hectare using the higher volume when the soil surface is dry. Half fill the sprayer tank with water, start the agitation. Add the correct amount of Portman Trifluralin and then top up the sprayer with the required volume of water. Mix thoroughly by continuous agitation until the spraying operation is completed. After spraying ensure that the sprayer and all measuring and calibration equipment are thoroughly cleaned. Traces of Trifluralin may cause damage to susceptible crops that are sprayed later.

# Portman Trifluralin

<b>INCORPORATING</b> (EXCLUDING CEREALS) Incorporation must be carried out within 30 minutes of spraying using one of the following machines as described.	
Rotary Cultivator (With L blades)	Set to a working depth of 50 mm using a high rotary speed and slow forward speed. Single pass is usually sufficient.
Rotary or Reciprocating Power Harrow	Set to a working depth of 100 mm and drive at a minimum 9-11 kph. Make 2 passes, the second at right angles to the first
Spring-tined Harrow (Triple K type)	Set to a working depth of 100 mm, drive at a minimum speed of 9 kph. Make 2 passes, the second at right angles to the first.
Disc Harrow	Set to cut 100 mm deep and drive at a minimum 9 kph. Make 2 passes, the second at right angles to the first.
<b>IMPORTANT:</b> For crops grown on ridges, e.g. swedes and turnips, set the working depth of Rotary Cultivators to 100 mm and other recommended equipment at 200 mm working depth. For incorporations requiring two passes it is important to raise the implement slightly before starting the second pass in order to avoid bringing up untreated soil. When using Spring tined implements sufficient tines should be used so that the tine tracks are not more than 100 mm apart.	

## RECOMMENDATIONS

CROP	Dose Rates Litres/ha	Notes
<b>BEANS</b> Broad bean+, Field bean Dwarf bean, Runner bean	2.3 1.7	Beans should be planted at least 75mm deep. Use in Program*
<b>BRASSICAE</b> Broccoli+, Brussels, Cabbage, Calabrese, Cauliflower, Kale, Oilseed Rape	2.3	Drilled and transplanted crops
<b>ROOT</b> Carrot, Parsnip, Swede, and Turnip	2.3	
<b>FRUIT</b> Raspberry and Strawberry	2.3	Pre-planting only
<b>LETTUCE</b>	1.2	Drilled and transplanted crops
<b>CEREALS+ (Wheat a Barley)</b>	2.0	<b>DO NOT INCORPORATE</b> (See Cereals section)
+ On light and very light soil use 1.7 litre/ha Rate. * For details of follow-up herbicides see HERBICIDE PROGRAMS. All transplants should be hardened off and well established before the application of Portman Trifluralin. Great care should be taken with modular transplants to ensure that the roots are planted beneath the treated soil.		

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## **CEREALS (Winter Wheat and Winter Barley Only!)**

The use of Portman Trifluralin offers the opportunity to extend and improve the weed control of other autumn residual herbicides. It may be used in conjunction with Portman Chlortoluron, on those recommended varieties of winter wheat that are tolerant to Chlortoluron, or with Portman Isotop on all varieties of winter wheat and winter barley.

At the 2 l/ha rate (1.7 l/ha on light soils) Portman Trifluralin will improve the range of weed control of the above products in respect of several important weed species including Speedwell spp. Pansy, Hemp-nettle, and Red Dead-nettle.

Applications should be made as soon as possible after planting and before the Trifluralin susceptible weeds have germinated or emerged since Trifluralin displays little useful activity against emerged weeds.

The best results follow pre-emergence applications but good control can be expected from applications made before the crop has developed 4 leaves (G.S. 14).

Apply as an overall medium spray (BCPC Definition) in 220-440- litres of water per hectare.

Before using read carefully the labels of the other products.

Ensure that applications are made to fine firm seed beds, roll after planting if seedbed is loose or puffy. Make sure that the seed is well covered, the ideal drilling depth to be 12-15 mm, as seed germinating on or very near the surface is likely to be damaged by the herbicide.

## ***FOLLOWING CROPS***

Only those crops which have been recommended should be grown within a 5 month period after application of Portman Trifluralin. Before drilling the next crop, mouldboard plough to a depth of 150 mm. Following the Autumn application of Portman Trifluralin cereals or grass crops should not be grown until the following Autumn. A full 12 months should elapse following the application of Portman Trifluralin before sugar beet is drilled.

## ***HERBICIDE PROGRAMS:***

The presence of resistant weed species may make it necessary to use Portman Trifluralin as the basis of a weed control program involving the use of other pre or post emergence herbicides. The following herbicide programs have proved satisfactory. Where less than the 2.3 litre/ha rate is used a program must be adhered to.

Crop	Trifluralin followed by:-
Broad Bean	Simazine
French Bean, Dwarf bean and Runner bean.	Bentazone
Broccoli, Brussels sprout, Cabbage and Cauliflower.	Propachlor
Carrot	Linuron
Oilseed Rape	TCA
Raspberry	Simazine
The choice of a follow up herbicide will depend on the crop, soil and weather conditions. The manufacturers label recommendations <b>MUST</b> be followed.	
Notes on Herbicide Programs.	
<ol style="list-style-type: none"> <li>1) Broad beans: on very light or light soils use Portman Trifluralin at the 1.7 litre/ha rate.</li> <li>2) Dwarf, French and Runner beans: Portman Trifluralin should be incorporated at least 24 hours planting.</li> <li>3) Brassica nursery beds: <b>DO NOT USE</b> Portman Trifluralin on nursery beds.</li> <li>4) Oilseed Rape: Portman Trifluralin may be tank mixed with Approved formulations of TCA. The TCA must be put into the sprayer tank first and the mixture sprayed immediately.</li> <li>5) Raspberries and strawberries: Portman Trifluralin should be applied at 24 hours before planting. <b>DO NOT USE</b> for Strawberries on Sand soils.</li> <li>6) Swedes, Turnips and Kale: For crops grown on the flat, Portman Trifluralin should be incorporated into the top 50 mm of soil within 30 minutes of application. For crops grown on ridges incorporation should be to a depth of 100 mm. It is recommended that for good weed control on ridges, only shallow ridges of not more than 150 mm are formed. It is important that the points of the ridger do not enter the untreated soil beneath the treated surface layer.</li> </ol>	