Crops/situations	Maximum individual dose (L product/ha)	Maximum number of treatments	Latest time of application
Brassicas (broccoli, Brussels sprouts, cabbage, calabrese, cauliflower and kale)	2.8	1 per crop	Prior to drilling or transplanting
Field crops of blackcurrant, redcurrant, gooseberry, raspberry, strawberry	7.0	1 per year	Before end of February
Field crops of blueberry, blackberry and aronia berry	7.0	1 per crop	Before end of February
Winter oilseed rape	2.5	1 per crop	Pre-emergence of the crop

OTHER SPECIFIC RESTRICTIONS:

- 1. Applications to strawberries must only be made to plants where the mature foliage has previously been removed (topped).
- 2. Application to strawberries, established blackcurrants, redcurrants, gooseberries and raspberries must be made after 1st November and before the end of February.
- 3. Applications to established outdoor blueberry, outdoor blackberry and outdoor aronia berry must be made after the 1st November and before the end of February.

SAFETY PRECAUTIONS

OPERATOR PROTECTION

Wash hands and exposed skin before eating and drinking and after work.

When using do not eat, drink or smoke.

ENVIRONMENTAL PROTECTION

To protect aquatic organisms respect an unsprayed buffer zone of 5 m to surface water bodies. Extreme care must be taken to avoid drift onto noncrop plants outside the target area.

DO NOT CONTAMINATE WATER WITH THE PRODUCT OR ITS CONTAINER (DO NOT CLEAN APPLICATION EQUIPMENT NEAR SURFACE WATER/AVOID CONTAMINATION VIA DRAINS FROM FARMYARDS AND ROADS).

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

STORAGE AND DISPOSAL

Keep out of reach of children.

Keep away from food, drink and animal feeding stuffs. Do not re-use container for any purpose.

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 container safely.

DIRECTIONS FOR USE

IMPORTANT: This information is authorised 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/WARNINGS

- Weed control may be reduced where the spray is mixed too deeply into the soil.
- Do not treat crops adversely affected by poor soil, adverse weather or cultural conditions.
- 3. Avoid spray overlap, particularly on headlands.
- 4. Incorporation under wet conditions is not satisfactory.

- Surface manure, straw, moss or other organic detritus may reduce weed control. Soil cultivations after spraying should be avoided.
- DEVRINOL can be used on a wide range of soils but should not be applied to Sands (as defined by the ADAS '85 System) or to soils with more than 10% organic matter.
- 7. It is important to ensure that the seedbed is free from clods and weeds and is in good tilth.
- 8. Devrinol must not be used on protected crops.

CROP SPECIFIC INFORMATION

BRASSICAS

- DEVRINOL may be sprayed prior to transplanting broccoli, Brussels sprouts, cabbage, calabrese, cauliflower, or kale.
- Apply DEVRINOL at 2.8 L product/ha as a MEDIUM or COARSE spray in 200-400 L water/ha.
- To maximise efficacy, DEVRINOL should be incorporated to a depth of 50 mm prior to transplanting. Incorporation MUST OCCUR with transplanting of application.
- DEVRINOL is not recommended for use in plantaining beds.
- Spring Planted Brassicas: Spring the horrows (triple-K type), tandem disc har lows power driven reciprocating harrows, the Lely locerra and rotary cultivator with L-shaped had sale all suitable for incorporation. Make one pas with a rotary

cultivator, but two passes, with the second at an angle to the first, are recommended for any other type of harrow. When non-powered harrows are used, a high forward speed of at least 8 kph (5 mph) is required to obtain thorough incorporation.

- A slow forward speed of 5 kph (3 mph) is recommended for the Lely Roterra and for rotary cultivators in combination with a high rotor speed.
- Summer Planted Brassicas: i.e. those usually planted during July and August, e.g. winter broccoli: Application should be made during the later stages of seedbed preparation and using a light set of har ows to blend the spray into the top 25 n. n of soii. With this implement a high forward speed of at least 8 kph (5 mph) is required and two p. Seed recommended to obtain thorough mix. 19, the second pass being at an angle to the first.

Se uential Programme

DEVRINOL should be sprayed and incorporated into the soil prior to fifting or transplanting a brassica crop. Incorporation must occur on the same day as application.

A follow up treatment of an approved formulation of a latt mative product may be applied after drilling o trar splanting according to the manufacturers ecommended rate.

Susceptible (S) Moderately Source Suble (MS) Moderately Resident Susceptible (S) Annual Lettle Field pennycress

Annual meadow grass Common barnyard grass Common chickweed Common purslane Mayweed species

Weed Control

Ani ual lettic Black bir dw led Cleavers Common field speedwell Common groundsel Fat hen Knotgrass Shepherd's-purse

Moderately Resistant (MR) Resistant (R)

Corn speedwell Common fumitory Redshank

mina

DEVRINOL may be applied pre-drilling and incorporated in a tank mixture with approved formulations or alone as a pre-emergent spray.

FIELD CROPS OF STRAWBERRY, BLACKCURRANT, REDCURRANT, GOOSEBERRY, RASPBERRY, BLUEBERRY, BLACKBERRY AND ARONIA BERRY

- DEVRINOL must not be used on protected crops.
- PROCESSED CROPS: Tests have proved that DEVRINOL does not taint strawberries, blackcurrants or gooseberries; nevertheless, growers should consult the processor before use.
- Applications to strawberries must only be made to plants where the mature foliage has previously been removed (topped).
- Soft fruit grown in Very Light Soils (as defined by the ADAS '85 System) should not be treated.

Established Strawberry Crops (crops that have made at least one season's growth)

- Apply DEVRINOL at 7 litres/ha as a MEDIUM or COARSE spray in 200-400 litres water/ha.
- Apply from November to the end of February after existing weeds have been removed.

Maiden Strawberry Crops

 On light soils, apply DEVRINOL at 5 litres/ha as a MEDIUM or COARSE spray in 200-400 litres water/ha.

- On medium and heavy soils, apply DEVRINOL at 7 litres/ ha as a MEDIUM or COARSE spray in 200-400 litres water/ha.
- Apply from November to the end of February after planting but before weeds emerge. Any existing weeds should be removed before application.
- Runners should be planted carefully so that no roots are left exposed.
- Soil should be firmed around the roots before application. Do NOT treat runners of poor vigour or with shallow roots.
- Do NOT apply DEVRINOL to runner beds
- DEVRINOL has been used successfully on a wide-range of strawberry varieties. However, it is recommended that only a small area should be treated in the first season due to the introduction of new varieties and changes in crop husbandry.

Blackcurrant, Redcurrant, Gooseberry, Raspberry, Blueberry, Blackberry and Aronia Berry

- Apply DEVRINOL at 7 litres/ha as a MEDIUM or COARSE spray in 200-400 litres of water.
- Apply during November to the end of February after existing weeds have been removed.
- Blackcurrant, Redcurrant, Gooseberry, Raspberry, Blueberry, Blackberry and Aronia Berry crops should be established for at least 10 months before treatment.

Weed Control

Susceptible (S)	Moderately Susceptible (MS)	Resistant (R)
Annual meadow-grass Black-grass Common chickweed Common field-speedwell Common poppy Corn spurrey Fat-hen Field forget-me-not Groundsel Knotgrass Mayweeds Willowherbs	Cleavers Field pansy Pale persicaria Redshank Shepherd's-purse Small nettle* Sow thistles Volunteer cereals	Black nightshade Charlock Corn marigold Field pennycress Parsley-piert

^{*} For the control of small nettle, a rate of 5 litres/ha is not recommended.

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WINTER OILSEED RAPE

- Apply DEVRINOL at 2.5 L product/ha.
- Use a medium-coarse spray (as defined by BCPC) in 200-550 L water/ha at a spray pressure of 2-3 bar.
- DEVRINOL may be applied and incorporated into the soil before drilling the crop (incorporation must occur on the same day as application) or postdrilling, pre-emergence of the crop.
- Where volunteer cereals are a problem, an additional post-emergence spray of an alternative product may be made according to the manufacturer's recommendations.
- Conventional seedbed preparation: Apply during the later stages of seedbed preparation. Use only a light set of harrows to incorporate the herbicides in the top 25 mm of soil.
- With this implement a high forward speed of at least 8 km/h (5 mph) is required and two passes are recommended, with the second at an angle

Weed Control

Susceptible (S)	Moderately Susceptible (MS)
Common poppy Prickly poppy	Annual meadow grass Common field speedwell Fat hen Ivy-leaf speedwell

WEED RESISTANCE

Strains of some annual grasses (e.g. black-grass, wildoats, and Italian rye-grass) have developed resistance to herbicides, which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group (WRAG) and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

Repeated use of herbicides with the same mode of action can increase the risk of strains of weeds developing resistance to these compounds, leading to poor control. In order to minimise the risk, a strategy for preventing and managing such resistance should be adopted. Use products with different modes of action and from different chemical groups in

to the first. Drilling may be carried out immediately or within 14 days of application. Alternatively, a drill fitted with light harrows will provide a second pass during drilling. In this case the direction of sowing should be at an angle to the first pass and should be completed within 48 hours of application.

- Minimum cultivation: May be sprayed directly onto the stubble and incorporated into the top 25 mm of soil as part of the surface cultivations. Tandem discs, spring tine harrows or similar non-powered harrows are suitable implements. Where surface cultivations have been completed before application, use only light tine harrows to incorporate the herbicides.
- In dry conditions better weed control may be achieved where the product is incorporated into the soil. Ideally the soil should be moist at application and there should be rainfall afterwards.

Moderately Resistant (MR) Resistant (R)

	Common chickweed	Black-grass
l	Mayweed species	Common fumitory
		Forget-me-not
		Pale persicaria
		Redshank

sequence or tank-mix, in conjunction with effective cropping rotation and cultivation techniques. In all cases the recommended rate of use should be adhered to. Follow WRAG guidelines.

Field pansy

SUCCEEDING CROPS

Before planting any following crop, the soil should be mould-board ploughed to a depth of 20 cm. Do not use DEVRINOL in the same season as replanting/drilling is planned.

No crop, other than supported uses including brassica crops (leaf, flower), root crops, fodder crops and oilseed rape, can be drilled within 7 months following application of DEVRINOL.

Maize may be grown providing a period of 9 months has elapsed since DEVRINOL was applied. Autumn sown wheat and grass or any other crop may be planted/drilled providing a period of 12 months has elapsed since DEVRINOL was applied.

MIXING

Half fill the tank with water and begin agitation. Add the required quantity of DEVRINOL to the sprayer using a filling device (e.g. induction bowl, probe etc) or otherwise by direct addition to the spray tank. Wash out container thoroughly, adding washings to the sprayer, preferably using an integrated pressurerinsing device where available, otherwise manually rinse at least three times.

For all tank mixes, follow the procedure above except add DEVRINOL to the tank first. Continue agitation during spraying.

Wash out sprayer thoroughly after use.

Apply DEVRINOL as a MEDIUM or COARSE spray in 200-400 litres water/ha.

FURTHER ADVICE FOR APPLICATION THROUGH KNAPSACK SPRAYERS

Application can be made via knapsack spray ir.

Recommended volumes have been provided below is a guide. Ensure product is thoroughly mixed belove spraying.

At water volume 200L/ha:

Knapsack sprayer capacity (litres)	Reforme ded rate projuct ha		
	Rate of produ	rct _F er filling	
10	250 mls	350 mls	
15	375 mls	25 mls	
20	500 mls	700 mls	

At water volume 1000L/ha:

Recommended rate product/ha		
5.0 l/ha	7.0 l/ha	
Rate of product per filling		
50 mls	70 mls	
75 mls 105 ml		
100 mls	140 mls	
	5.0 l/ha Rate of prod 50 mls 75 mls	

COMPATIBILITY

For information on tank mixes consult the UPL website: www.upl-ltd.com/ie

CONDITIONS OF SUPPLY

All goods supplied by the company are of good quality and we believe them to be fit for purpose. However, as we cannot exercise control over their storage, handling, mixing or use or the weather conditions before, during or after 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 esponsibility will be accepted by us or re-sell'rs for any failure in performance, damage or injury what, never arising from their storage, handling app.... ion or use.

The second tions cannot be varied by our staff or a ent whether or not the sadervise or assist in the use four goods. By and a ne used in this label may be regulated trademan or our Leurope Ltd, or other handacturers in an in propriety rights may exist.

To access the Safety Data Sheet for DEVRINOL® please use the link below or scan the code.



ie.uplonline.com/crop-product-portfolio

Alternatively, contact your local supplier.





DEVRINOL®

HERBICIDE

PCS 05234

FOR USE AS AN AGRICULTURAL HERBICIDE
FOR PROFESSIONAL USE ONLY

A suspension concentrate (SC) formulation containing 450 g/L (40.9% w/w) napropamide.

A herbicide for the control of annual grass and broad-leaved weeds in certain brassicas (broccoli, Brussels sprouts, cabbage, calabrese, cauliflower and kale), field crops of strawberry, blackcurrant, and redcurrant, gooseberry, raspberry, blueberry, blackberry, aronia berry and winter oilseed rape.



SAFETY INFORMATION

December 2020

Warning

Very toxic to aquatic life with long lasting effects.

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

Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction. To avoid risks to human health and the environment, comply with the instructions for use.

PCS 05234

5 Litres 450 g/L NAPROPAMIDE

5



FOR USE AS AN AGRICULTURAL HERBICIDE. FOR PROFESSIONAL USE ONLY

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STORAGE AND DISPOSAL

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Do not re-use container for any purpose.

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 container safely.

SHAKE WELL BEFORE USE PROTECT FROM FROST

For Batch Number and Manufacturing Date see container

Approval Holder: UPL Holdings Coöperatief U.A.

Claudius Prinsenlaan 144 A, Blok A, 4818CP Breda. The Netherlands

Marketing Company: UPL Europe Ltd

For 24 hour emergency information contact: CARECHEM24:+44 (0) 1235 239670